



Old Main
Building
1859

LIBRARY OF
THE PENNSYLVANIA STATE UNIVERSITY
PENN STATE COLLECTION

PENNSTATE



UNIVERSITY
LIBRARIES



Digitized by the Internet Archive
in 2012 with funding from
LYRASIS Members and Sloan Foundation

<http://archive.org/details/facultybulletinpv4851penn>

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, July 8

Faculty, staff, and summer session student dance, 9 to 12 p.m., HUB Ballroom.
Lecture-recital by Claremont String Quartet, 8 p.m., HUB Assemblyroom.

Saturday, July 9

Square dancing, 9 to 12 p.m., HUB Ballroom.

Sunday, July 10

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Douglas E. Strum, Bucknell University.
Organ recital, 8 p.m., Schwab Auditorium.

Monday, July 11

Mateer Playhouse production of "A Streetcar Named Desire," opening night (runs for two weeks); 8:40 p.m.
Duplicate bridge, HUB Cardroom, 7-10 p.m.
Student sing, 8 p.m., Schwab Auditorium.

Tuesday, July 12

Concert by Claremont String Quartet, 8 p.m., HUB Ballroom.

Wednesday, July 13

Outdoor movie, 9 p.m., lawn south of HUB.

Friday, July 15

Lecture-recital by Claremont String Quartet, 8 p.m., HUB Assemblyroom.

New District Administrator

The University's adult education activities in a nine-county area of north-central Pennsylvania will be directed by Joseph M. Wirtz, director of the New Castle Center since 1946.

Effective July 1, Wirtz will be in charge of the new district office for Continuing Education in Williamsport. The office will serve Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Tioga, and Union counties.

NEWS IN BRIEF

► **FARM FEATURES:** The new Penn State tape-recorded farm features, produced weekly by Cordell Hatch, extension radio editor, are now being carried regularly by the Mutual Broadcasting System. The tapes are being used on the Claude Mahoney Farm Report program which originates in Washington, D.C. at 7:30 a.m. EDT and is carried by many of the 456 Mutual stations. Two tapes are used weekly.

► **JOURNALISM:** A reading program to acquaint journalism majors with the literature in their field has been adopted by the School of Journalism. The program consists of book lists, not including textbooks, which the student may use to guide his reading in the basic required courses in journalism.

Object of the program is to interest students in the broad literature of journalism and help them choose books for their own libraries.

► **LIBRARY:** Pattee Library will be open from 7:50 a.m. to 10 p.m. Monday through Thursday during Mid-Session; from 7:50 a.m. to 5 p.m. on Fridays; and 9 a.m. to 5 p.m. on Saturday, with certain exceptions. On Tuesday, July 5, the Library will close at 9 p.m., and on Friday, July 8 will close at 10 p.m. On Saturday, July 9, it will open at 7:50 a.m. Hours on Sunday will be 2 p.m. to 10 p.m.

► **ALUMNI:** Total contributions by Alumni to the University added up to more than \$234,300 this year, marking a new high in dollars. The seven-year gift total is now \$1,400,000. The number of contributors for 1960 was 10,916.

► **REPORT:** The appendix to the Library Report of the College of the Liberal Arts, dated May 12, 1960, is now available in the office of Dr. Frederiek R. Matson, assistant dean for research, 123 Sparks.

► **DEGREES:** President Eric A. Walker was granted three honorary degrees in June. The University of Pennsylvania and Lafayette College both awarded him LL.D. degrees and Jefferson Medical College the Litt. D. degree.

► **ATMOSPHERE:** A national center for atmospheric research will be established as the result of a grant of \$500,000 by the National Science Foundation to the University Corporation on Atmospheric Research, of which Penn State is a member, along

with 14 other colleges and universities.

Dr. Walter Orr Roberts, director of the High Altitude Observatory at the University of Colorado, will be director of the center.

Dr. Michael A. Farrell, director of the Agricultural Experiment Station, is secretary-treasurer of the Corporation, and Dr. Hans Neuberger, head of the department of meteorology, is the University's scientific representative on the board.

► **UNIONS:** The department of labor education will conduct 23 institutes for more than 1,200 trade unionists this summer in cooperation with Continuing Education.

Already completed is an institute attended by 70 delegates from American Federation of State, County, and Municipal Employees. Other institutes will be held for the Penna. AFL-CIO Community Services Committee, the United Steelworkers of America, the Penna. AFL-CIO Education Department, and the Communication Workers of America.

► **WORKSHOP:** The Workshop for Education in International Understanding, which runs from July 5 to Aug. 12, will bring to the campus attaches of the Ghana and Iraq embassies, a former member of the Cuban mission to the United Nations, and the Washington correspondent of the Manchester Guardian.

The Workshop is held every summer and attracts enrollees from many sections of the country and from other nations.

Dr. Kent Forster is director of the Workshop this year.

► **FELLOWSHIPS:** The Cooperative Graduate Fellowship Program of the National Science Foundation and the Pennsylvania State University will support 20 graduate students in ten different fields of study this coming year.

Stipends and cost-of-education allowances amounting to more than \$78,900 have been awarded the University for this program. Included are 18 fellowships at \$2,200 for 12 months, two fellowships at \$1,650 for nine months, and cost-of-education allowances for 20 fellows at \$1,800 each.

Six fellowships are in the field of chemistry; three in engineering; two each in bacteriology, petrology and physics; and one each in ceramic tech-

(Continued on page four)

Foreign Aid Not Major Issue

(This is the third in a series of articles on the background of affairs of government which are likely to be discussed in the presidential campaigns, as viewed by faculty members.)

FOREIGN aid programs of the U. S. have totalled over \$80 billion since World War II. The exact figure is somewhat clouded in definitions.

"In spite of the size of the program," says Dr. Elton Atwater, professor of political science, "it doesn't appear likely that this phase of government will be a major issue in the coming presidential campaign, but it may be in certain districts electing Senators or Congressmen, however."

Controversy does exist over foreign aid, Dr. Atwater is quick to point out, usually not on a partisan basis but rather through efforts of the "economy bloc" in Congress to reduce spending.



Atwater

"One of the most controversial aspects of our present foreign aid program," he points out, "at least in general terms, is the proper financial

relationship between the military aspects and economic aid."

The Mutual Security Act of 1960 is currently under discussion in Congress. The President has asked for \$2 billion for military assistance, \$724 million for defense support (which is considered economic) and \$700 million for the Development Loan Fund. His total request under MSA is \$4.175 billion. Appropriations for 1960 totalled \$3,225,813,000. The largest increases, if granted, would be in military assistance and DLF.

Military assistance, which provide grants to friendly nations, was authorized in advance for 1961 and 1962 in the Mutual Security Act of 1959, but the amount of such assistance is determined yearly. The appropriation for the current year totalled \$1.3 billion. Since 1950, the total appropriation for this purpose has been about \$27.5 billion. Usually the military assistance appropriation receives bi-partisan support in Congress, Dr. Atwater explains, but there is opposition to the amount, especially from those who would reduce military assistance to increase other forms of aid.

"Defense support" assistance is defined as economic assistance designed to secure specific contribution to the common defense by another country in which U. S. military aid is helping to support significant military forces. These countries include Spain, Greece, Turkey, Iran, Pakistan, East Pakistan,

Thailand, Laos, Cambodia, Viet Nam, Philippines, Taiwan, and Korea.

This form of aid consists of economic resources to permit maintenance of defense contributions. As a general rule it is aid to enable a country to meet the cost of an agreed required defense contribution of forces or facilities, or both. Support may be in one of two ways: by projects in major areas of the economy or by financing imports of agricultural or industrial commodities or by direct cash payments.

For the current year, defense support appropriations totalled \$695 million and the President asked for an increase to \$724 million this year. Congress has authorized \$675 million for this purpose.

Development Loan Fund

The Development Loan Fund, established in 1957, is under the Secretary of State. As its name implies, it is an agency for lending rather than for grants and also as its name implies the loans are intended for development in the underdeveloped countries which are friendly to the U. S. Projects must not be able to obtain financing on reasonable terms from other free world sources, including private investment, the Export-Import Bank, the International Bank for Reconstruction and Development (World Bank), and the International Finance Corporation. The loans may be granted to government-sponsored development projects as well as to assist private investment and enterprise.

Only specific, supposedly economically sound and technically feasible projects are approved for receipt of DLF funds. Opponents of DLF, who seem in Congress to be few in number, contend that since repayment of these loans either will be in local inconvertible currencies or will not be made at all, DLF is a "giveaway program."

This year \$550 million was appropriated (bringing the total to \$1.4 billion since 1957) to add to the capitalization of this Fund and for the next year the President has asked for \$700

million. In time, if repayment is maintained on good schedule, appropriations for the Fund will be negligible, proponents say, but in a little over two years, only a very small amount has been repaid to the Fund.

"If the Development Loan Fund has a weakness," says Dr. Atwater, "it is the same weakness found in many other bilateral aid programs: nations, particularly those in Asia and Africa, become apprehensive about the political implications of loans or aid from one of the big powers. Hence, since they do not want to become economically involved in the cold war, they prefer aid through a multilateral rather than bilateral program."

Technical Assistance

Another program, which has its roots in Point Four, is that of Technical Assistance, which is now also part of MSA, and which works through ICA. The major fields of cooperation are agriculture, education, public administration, and health. About 60 countries and territories are part of the program now, only two of which are in Europe — Spain and Yugoslavia. For Africa, the 1961 program is envisioned as requiring \$24.3 million; for the Near East and South Asia, \$44.7 million; for the Far East, \$36.0 million; for Latin America, \$39.5 million; and for interregional programs \$23.5 million. The current appropriation (for bilateral aid only) is \$150 million and the Administration request for next year is \$172 million.

The United States contributed about \$31 million this year to multilateral technical assistance programs through the United Nations and the Organization of American States. About 40% of the U. N. technical assistance program comes from the U. S.

Another major foreign aid program is that provided under the category of "Special Assistance and Other Programs." Special assistance is economic aid on a grant or loan basis to accomplish political or economic objectives not possible under the Development Loan Fund or other aid programs. It is directed almost entirely to countries to which we give little military assistance. For 1961, the planned program will include 22 countries and territories, ranging from West Berlin and the United Arab Republic to Afghanistan and Israel. As an adjunct to foreign policy, this Special Assistance program has aided Jordan, Lebanon, Tunisia, Bolivia, Guatemala, Yugoslavia, and West Berlin, among others, in circumstances of considerable importance to our relations with those governments. As an example, in Guatemala after the oust-

ing of a Communist-dominated government, Special Assistance was provided to strengthen the new government.

For Special Assistance alone, in 1961, the Administration has requested \$268 million. Under "Other Programs" a total of \$101 million has been asked for refugee and escapee programs, children's welfare, NATO Science, and Atoms for Peace.

Contingency Fund

There are other provisions under the Mutual Security Act, the most important of which is the Contingency Fund. For the current year, \$155 million was appropriated and for 1961 the President has asked for \$175 million. A very flexible fund, this source of money may be used for furnishing military assistance, defense support, special assistance, and technical cooperation on projects which either are not known when appropriations are made up or which, although known, are not detailed enough for presentation as projects. This Fund, for example, was used to aid Jordan as a result of the Lebanon crisis and to aid Nepal and Morocco which suffered natural disasters.

Multilaterally, the United States extends aid through the United Nations, the International Bank for Reconstruction and Development, the International Monetary Fund, International Finance Corporation, the Organization of American States, Colombo Plan, and the Inter-American Development Bank.

United Nations programs of considerable significance are the U. N. Expanded Technical Assistance Program (UNETAP), and the U. N. Special Fund. UNETAP includes ILO, FAO, ICAO, WHO, WMO, ITU, IAEA, and UNESCO. For 1960, the President has asked for \$33 million for UNETAP and the Special Fund.

Aside from largely private efforts in the foreign aid field after World War I, the United States, explains Dr. Atwater, got its first taste of this phase of international relations with the Export-Import Bank, organized in 1934 to aid in the financing and facilitating of exports and imports and the exchange of commodities between the U. S. and any foreign country.

Later in the 'thirties, technical assistance programs were developed in Latin America, with projects comparable to those suggested later by President Truman in his Point Four speech.

Private capital, says Dr. Atwater, has been reluctant to invest in development projects in many countries because of their relatively low level of production, their inability to meet the

criteria of normal commercial banking, and other problems. Hence the slack has been taken up by public funds.

"But the need has been, and continues to be, for investment in projects which are not in themselves income producers," explains Dr. Atwater. "Schools, hospitals, sanitation, transportation, public health — these will not attract private investment or public loans which have to be made according to orthodox commercial banking standards, such as are required by the World Bank and other lending agencies.

"Yet those are exactly what the underdeveloped nations need before any other investments can really pay off."

The IDA

To meet these needs, the International Development Association has been proposed. Dr. Atwater, as a representative of the Friends (Quaker) Committee on National Legislation, spoke in support of IDA before the U. S. Senate Committee on Foreign Relations earlier this year.

IDA is intended to give multilateral help to underdeveloped countries with very long term loans, low interest rates, greater use of local currencies, and possibly grants. It would supplement the World Bank and would be affiliated with it.

"So far," says Dr. Atwater, "the IDA has received support from both parties and opposition primarily from the economy minded."

There is little doubt, Dr. Atwater indicates, that Russia's aid to other countries has stimulated interest in the United States in expanding foreign aid. Nor is the U. S. alone among the Western Powers to provide foreign aid, although, in most cases, countries (for example Great Britain) extend help primarily in their own territories and possessions.

Underway now, however, is the Organization for European Economic Cooperation, involving the 20 countries which participated in the Marshall Plan, plus the U. S. and Canada. The purpose is to promote Western European economic growth by making both hard and soft loans, seek agricultural improvements, develop free world trade, and try to enlist all the more prosperous countries in economic development.

The total foreign aid program draws criticism for various reasons: for management and inefficiency, for costs, for its supposed failure to accomplish the goal of improved foreign relations, and for poor planning, and yet it has remained aloof, so far, from partisan politics.

Award to Holderman

Kenneth L. Holderman, coordinator of Commonwealth Campuses, received the 1960 James H. McGraw



Holderman

Award for outstanding contributions to technical institute education at the annual dinner of the American Society of Engineering Education on June 21.

Holderman was cited by the Society for "his devoted, intelligent, and dynamic service to technical institute education" and for "his penetrating and articulate writing and speaking" on its behalf.

The dinner was part of the national convention of the ASEE, held on the Purdue University campus.

The James H. McGraw Award is a \$500 prize sponsored by the McGraw-Hill Book Co., Inc., and is administered by the ASEE's Technical Institute Division.

Eleven years ago the late Harry P. Hammond, dean of the College of Engineering and Architecture, received the first award.

Personnel Matters

Joseph T. Law, assistant professor of political science since 1925, retired on June 30. Iowa-born, Law is a graduate of the Springfield, Mo., State Normal School and of Drury College, Springfield. He was granted the master of arts degree in political science in June, 1921, by the University of Wisconsin. He taught in high schools in Texas and Missouri and at the University of New Hampshire before coming to Penn State in 1925.

Dr. Vincent P. Norris, who received his doctoral degree in mass communications from the University of Illinois in June, will join the faculty in September as assistant professor of advertising. He taught at Illinois while working for his degree, and did research with radio and television audiences.

Dr. William S. Dye, Jr., who retired in 1944 after 35 years of teaching, died on Saturday, June 18. A graduate of the University of Pennsylvania, he came to the campus in 1907 as instructor in English. He obtained his master's degree in 1908 from Penn State and the doctorate from Penn in 1915. He was acting head and administrative head of the English literature department from 1919 to 1927, when he was named head.

News —

(Continued from page one)

nology, fuel technology, mathematics, metallurgy and psychology.

Dr. Edward D. Van Ormer, assistant dean of the graduate school, is University coordinator for the fellowship program.

➤ **COAL:** Current contracts placed with the University by the Governor's Coal Research Board total \$681,500 and another \$29,500 is expected to be added in the near future.

More than 66 persons, graduate students and faculty members, have conducted research under funds from the Board since the inception of the program in 1956. Faculty members in the departments of fuel technology, geology, and mineral preparation participate in the research programs.

➤ **DELEGATE:** Dr. Dorothy J. Lipp, dean of women, will head a three-man delegation to the International Seminar on Vocational Guidance for the Handicapped in Jerusalem, Aug. 22 to Sept. 1, representing the American Personnel and Guidance Association.

The Seminar is sponsored by the International Association for Vocational Guidance. Other delegates from the APGA will be Dr. Donald Super, vice-president of the International Association for Vocational Guidance, and Dr. Abraham Jacobs, president of DRC, both of Teachers College, Columbia University.

➤ **PLAYHOUSE:** Tennessee Williams' drama, "A Streetcar Named Desire," will open a two-week run at Mateer Playhouse on July 11.

In featured roles in the play which is generally regarded as Williams' best, are Esther Benson and David Frank. This will be Miss Benson's

only role this year at the Playhouse. Frank, who played here in previous years, is remembered for his roles in "The Mouse Trap," "The Glass Menagerie," and as Bus Riley in the William Inge one-act plays.

Curtain time for all Playhouse productions is 8:40 p.m. The Playhouse is at Standing Stone, near Neff's Mills, off Rt. 305.

➤ **BUSY WEEK:** Next week will see the beginning of 18 conferences, institutes, workshops, short courses, seminars, and symposiums at University Park, attracting an estimated 1,800 persons.

The meetings vary from the one-day Clearfield County Beekkeepers Association Picnic and Tour to the seven-week Special Short Course for Foreign Students.

Largest attendance is expected for the Dairy Fieldmen's Conference, with 400 the estimated crowd, and for the Pennsylvania Junior Chamber of Commerce Conference, nearly as large.

Other groups will include the School Lunch Institute, the Architectural Engineering for Atomic Defense meeting, the Mexican Industrial Engineering Short Course, and the Symposium on Organometallics.

SOCIAL SUNDAY

A "Dessert Social" will be held on Sunday, July 10 at 7 p.m. in the Hetzel Union Building Ballroom to give resident, visiting, and administrative staff members of the 1960 Summer Sessions an opportunity to visit together informally. A cordial invitation is extended to all Summer Sessions faculty and administrative staff to attend.

➤ **APPOINTMENT:** President Eric A. Walker has been appointed to membership on the National Science Foundation Board, succeeding former Dean M. P. O'Brien, of the University of California at Los Angeles. The appointment was made by President Eisenhower and ratified by the Congress.

President Walker was one of three appointees from Land-Grant Universities; the others were Wisconsin President Conrad A. Elvehjem, and University of California Chancellor Glenn T. Seaborg.

The appointment of Dr. Walker is for six years. Others named to the nine-man Board are Notre Dame president T. M. Heshburgh; Rice Institute President W. V. Houston; Joseph C. Morris, of Tulane; William W. Rubbey, U. S. Geological Survey; William O. Baker, Bell Telephone Laboratories; and Rufus E. Clement, president of Atlanta University.

➤ **COSTS:** A five-year project aimed at developing and defining standardized methods for cost analysis as aids in educational planning has been completed by a group of ten leading American universities. Penn State among them.

Better overall financial management and more realistic long-term planning were the objectives in undertaking the study. The methods developed will help college administrators and other educational leaders and policymakers apply a more accurate and precise yardstick to the elements of cost in educational institutions.

In addition to Penn State, the cooperating colleges were: University of California, Indiana, Iowa, Michigan State, Minnesota, Purdue, Washington (at Seattle), Vanderbilt, and Wabash.

faculty BULLETIN

Vol. 48, No. 1

July 8, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

Faculty BULLETIN

Weekly Publication
of Pennsylvania
State University

CALENDAR

Friday, July 15

Lecture-recital by Claremont String Quartet, 8 p.m., HUB Assemblyroom.

Saturday, July 16

Square dancing, 9-12 p.m., HUB Ballroom.

Sunday, July 17

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, acting University chaplain.

Monday, July 18

Student Sing, 8 p.m., Schwab Auditorium. Duplicate bridge, 7-10 p.m., HUB card room.

Mateer Playhouse production of "A Streetcar Named Desire," 8:40 p.m. (second week, runs through Saturday, July 23).

Tuesday, July 19

Concert by Claremont String Quartet, 8 p.m., HUB Ballroom.

Forum on Religion and Public Education, 8-9:30 p.m., Helen Eakin Eisenhower Chapel. Topic: "Are Your Opinions Your Own," with A. M. Wellington, moderator, and panel of J. E. Faulkner, W. E. Babcock, and Frank J. Simes.

Wednesday, July 20

Outdoor movie, 9 p.m., lawn south of HUB. "Night Passage," with James Stewart.

Thursday, July 21

Forum on Religion and Public Education, 8-9:30 p.m., Helen Eakin Eisenhower Chapel. Topic: "The Place of Religion in Public Education," with James H. Moyer as moderator of panel of Lyman C. Hunt, Robert H. Holtzman, and the Rev. Preston N. Williams.

Friday, July 22

Lecture-recital by Claremont String Quartet, 8 p.m., HUB Assemblyroom.

Saturday, July 23

Square dancing, 9 to 12 p.m., HUB Ballroom.

Sunday, July 24

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, acting University chaplain.

Summer Sessions Band Concert, 7 p.m., on the Mall in front of Library, or Schwab Auditorium in case of rain. James W. Dunlop, professor of music, directing.

► **HONORS:** An unprecedented five citations in the national honors competition of the American College Public Relations Association were won by the University, it was announced this week.

Citations in the category of "Education News" were won by James H. Coogan, director of public information, for (1) his two-part newspaper series interpreting the University's student loan program, and (2) for inspiring and cooperating in the preparation of an article on the University's summer counseling program, by Edgar Williams, of the Philadelphia Inquirer.

In the "Audio-Visual Media" category, a "best in class" citation was conferred on the 15-minute all purpose, color sound film "Introducing Penn State." The film was written and produced by Gilbert S. Aberg and was filmed by the University's Motion Picture and Recording Studio. Aberg was also cited for his production of a 15-week radio series titled "Footnote," involving 150 faculty members and broadcast by 30 Pennsylvania radio stations.

In the public relations category, top-ranking citation of honor went to the project to confer the names of Pennsylvania counties on living units in the men's residence halls. An all-University committee handled the details of this project.

► **FORUMS:** Two forums on the topic "Religion and Public Education" will be conducted next week which will be of interest to students in education and to faculty members.

On Tuesday, July 19, a panel discussion on "Are Your Opinions Your Own," will have as moderator Arthur M. Wellington, professor of counselor education, and panelists Joseph E. Faulkner, instructor in sociology, William E. Babcock, principal of the State College junior high school, and Frank J. Simes, dean of men.

A second forum will be held on Thursday, July 21, on the topic, "The Place of Religion in Public Education," and will have as panelists Dr. James H. Moyer, head of the department of secondary education, Dr. Robert H. Holtzman, assistant professor of education, and the Rev. Preston N. Williams, acting university chaplain.

► **ARTISTS:** Penn State faculty and staff members and their families, as well as retirees, were well represented in the 11th annual exhibit of paintings by adult students of the State College

Area. They attended classes conducted by Eleanor Zygler, assistant professor of art, for the State College Recreation Board.

Leonard A. Doggett, professor emeritus of electrical engineering, was represented by 13 paintings; Charles A. Lamm, head of the building maintenance division, had five and his wife a like number; Robert H. Olmstead, professor emeritus of dairy science extension, exhibited one. In addition, the wives of many faculty members and retirees had works in the show.

► **DECEASED:** Mrs. Clara Calhoun Phillips, of RD 2, Washington, Pa., the first woman to ever serve on the Board of Trustees, died on July 6. She was first named to the Board as an appointee of the Governor in 1926, serving until 1934. She was renamed to the Board in 1939 and served until 1948. Mrs. Phillips and her late husband, William D. Phillips, established a scholarship which provides \$300 to the recipient.

► **GRANT:** The Air Force Air Research and Development Command has allocated \$80,000 to the University under a new program designed to provide equipment for inter-disciplinary research. The grant will affect four different research programs directly and benefit others which might make use of the new equipment.

Infra-red equipment for the laboratories of Dr. Philip S. Skell and Dr. Raymond Pepinsky will require much of the grant. Dr. Skell, associate professor of chemistry, is studying methylenes. Dr. Pepinsky, research professor of physics, will use the equipment in crystal structure studies.

Supplementing present equipment, the new facilities will help to make Penn State a leading center for infrared techniques. Although assigned to these laboratories, the equipment may be made available to other research groups on campus having need for it.

A generator and auxiliary equipment for the ultra-low temperature laboratories of Dr. John G. Aston and Dr. J. J. Fritz will also be purchased.

The balance of the funds will be used to obtain an ultra-high pressure-high temperature facility to supplement equipment used by Dr. Rustum Roy, professor of geochemistry. Crystalline structures will be studied with the aid of the equipment, which makes possible pressures of three million pounds per square inch at temperatures of several hundred degrees Centigrade.

Education gets scrutiny

ANYONE in any way interested in education in the Commonwealth of Pennsylvania has a stake in the current study being conducted by the 31-man Governor's Committee on Education.

Penn State became aware of the deliberations of at least one segment of this Committee when President Walker twice addressed the "Task Force on Higher Education" on May 25. Many other faculty and staff members have contributed their time and energy to support the investigation and the University's future will certainly be affected by what is learned and the conclusions reached.

Just what is the Governor's Committee on Education? How is it conducting its study? What will happen to its deliberations? Wherein is Penn State affected?

On the surface, the Committee's goal is the preparation of a report which must be in the hands of Governor Lawrence in January 1961. The report will reveal the status of our present educational system, what it should be, and how the Commonwealth can bring about the changes necessary. The Governor will make no prior commitment to accept all or any of the recommendations of the Committee nor will the Legislature, which is to get a copy of the report also. It is reasonable to conjecture that the report will get a thorough study from both.

The history of the Committee begins in the 1959 General Assembly when an attempt (HB 1108) was made to increase the general appropriation for education in Pennsylvania by some \$200 million. The Assembly, although defeating this bill, recommended that a study, along certain specified lines, be made of our educational problems. The State Council of Education made \$300,000 available for the study. Governor Lawrence chose to broaden the scope of the inquiry, to leave virtually no aspect of education untouched.

Lay Committee

The Governor concluded that the best way to go about the study was to appoint a lay committee. Professional educators would contribute as consultants and staff assistants. He appointed Dr. Robert A. Christie, director of program evaluation and acting director of management methods in his office, to the position of executive director of the study.

"Such was the interest of many people in this project," says Dr. Christie, "that virtually everyone the Governor asked to serve on the Committee accepted readily, even though they were

warned that a great deal of their time and effort would be required."

In the early stages, it became apparent to Dr. Christie that some organization would be required to generalize the areas of inquiry. On hand were some 150 individual problems which had already been accepted for scrutiny (this list was considered incomplete) and it was patently impossible for the entire Committee to delve into all of these collectively. The result was the formation of eight task forces, made up of Committee members, plus an "expert" and a "chief of staff." The expert in each case is a person in educational work. For example, Dr. Franklin A. Miller, head of Penn State's department of education services, is an expert for the School District Organization Task Force. In all but one case the chiefs of staff are members of the staff of the Department of Public Instruction.

The Committee is a distinguished one, reflecting wide interests and positions. On the Higher Education Task Force, for example, are Albert McCoy, president of the Masland Duralather Co. in Jenkintown; the Hon. Joseph S. Clark, Jr., U. S. Senator; the Hon. Jo Hays, Pennsylvania Senator from State College; and the Hon. Raymond P. Shafer, Pennsylvania Senator from Meadville. The expert is Dr. Frederiek Ness, of Dickinson, who has only recently resigned to become vice-president of Long Island University. Chief of staff of this task force is Dr. Richard Shier, deputy secretary for higher education of the Department of Public Instruction.

On other task forces are Senator Hugh Scott, two more State senators, two jurists, four leading labor men, four presidents of industrial firms, and others of equal eminence.

In addition to the Higher Education and School District Organization Task Forces, the other six are: School Construction, Teacher Education and Relations, School Administration, Guidance and Counseling, and School Finance. Obviously there are regions where overlapping of interests occurs, but in general each task force has an assigned function.

To carry out those functions, and in fact those of the Committee as a

whole, the aid of many persons has been obtained. Some are consultants, such as Dr. J. R. Rackley, dean of the College of Education, who works closely with Dr. Christie and discussion groups to advise on research studies. Christian K. Arnold, staff assistant to President Walker, was a consultant also, for the purpose of preparing materials for use by the task forces in their early deliberations.

Another form of consulting work is being provided by a group headed by Dr. Hugh M. Davison, professor of education research, and including Drs. James Gemmell, Franklin A. Miller, Donald J. Willower, William J. Page, and David W. Russell, all of the College of Education faculty, and graduate students Richard Poole and Thomas Turner. Under contract to the Teacher Education and Relations Task Force, the group is making a thorough study of a dozen or more problems in the teacher education field.

The Hearings

Each of the task forces, in May and June, conducted hearings to provide any organization or individual having a contribution to make to the subject a chance to be heard. Here again, Penn State faculty and staff members contributed much.

President Walker made two presentations before the Higher Education Task Force on May 25, one as representative of the University and the other for the Pennsylvania Association of Colleges and Universities.

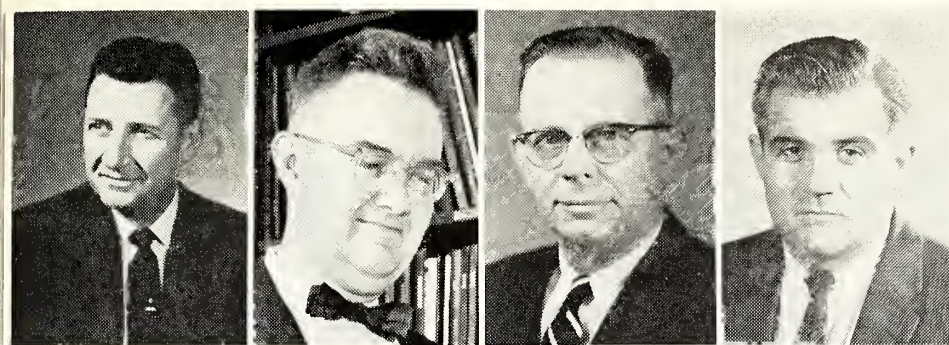
Dr. Gerald Torkelson, associate professor of education, and Dr. C. R. Carpenter, director of the division of academic research and services, both appeared before the Curriculum and Administration Task Forces. Torkelson represented the Pennsylvania Audio Visual Education Advisory Committee and Carpenter the Pennsylvania Education Television Committee.

Dr. Edward L. Mattil, professor of art education, was one of a group which made a presentation before the Curriculum committee and Dean Rackley appeared before the Teacher Education and Relations Task Force.

In still another way, Kenneth L. Holderman, coordinator of Commonwealth Campuses and Robert E. Eiche, director of the Altoona Campus, contributed to the study. Both were recently part of a discussion group which considered the junior colleges.

The Task Force hearings attracted diverse groups and individuals. Many had a specific idea to "sell"; others presented broad programs and plans. Some were questioned in detail by Committee members.

The variety of interests present can



Rackley

Davison

Miller

Christie

With their help, Governor's Committee is making progress.

be illustrated by a listing of a few of the organizations heard by the Higher Education Task Force: the State Chamber of Commerce, the American Jewish Congress, the Penna. Equal Rights Council, the State Grange, the Board of Presidents of the Pennsylvania State (Teachers) Colleges and a representative of State-aided institutions (Dr. M. E. Gladfelter, of Temple University.)

In other task force hearings were such groups as the Pennsylvania Federation of Teachers, the American Legion, the Fair Employment Practice Commission, the Pennsylvania State Education Association, and the AFL-CIO Education Committee.

Research Force

In a sense, the hearings broadened the research force of the Committee in that it made available whatever studies had been developed by these groups. But they served also to indicate additional problems for study by the Committee.

"We purposely held the hearings early in the process because we hoped that they would contribute to our planning as well as provide us with information and attitudes," says Dr. Christie. "We now feel that the hearings accomplished much that we hoped for."

In all, 22 hearings have been held, attracting over 50 different organizations, for a total of more than 100 appearances. Many organizations appeared before two or more task forces.

The reaction of faculty members who were present at hearings was that the task force members had "done their homework" well, asked extremely intelligent and searching questions, and showed a genuine interest and considerable knowledge of the subject. Dr. Christie has pointed out that attendance of Committee members at hearings has been nearly perfect.

Other Methods

Behind the scenes for the past several months a great amount of "leg work" research has been going on, initiated in some cases by Dr. Christie,

in others by the Task Forces and their experts and consultants. Much of it requires the help of other State Government groups, such as the Bureau of Research and the Department of Public Instruction.

For example, recently the Bureau of Research presented to the Higher Education Task Force a 42-page report on many aspects of collegiate education in the State. This was only one of several studies, however, which the task force will use ultimately in preparing its report.

In addition to hearings, the Task Forces meet periodically, whenever advisable, to discuss the research in progress and, on occasion, to hear additional witnesses.

From these deliberations will come reports from each task force for consideration by the entire Committee on September 13. A meeting of the Finance group will be held, with chairmen of each of the other task forces present, to begin the job of "costing out" the entire program suggested in the Task Force reports. The finance committee will recommend priorities for carrying out the program also.

In October or November, the full committee will hear this report and take six weeks then to develop its final report, with the help of Dr. Christie.

The Problems

Some of the basic problems facing the Committee are fairly obvious. Not so apparent are the solutions to these problems and others which have been suggested since the study began.

Rising enrollments, shortages of space and teachers, improvements in curriculum programs, upgrading of teachers, need for counseling — all of these have been pointed out to the Committee. Dr. Christie, with the aid of C. K. Arnold, defined many of these problems at the outset of the study. The concluding statement of these definitions contained the following:

"The basic task of the Governor's Committee on Public Education in the Commonwealth, then, is to look

again at what our schools should do, how they should do it, and why they should do it. To do this, it is asked to study the Commonwealth's machinery and its laws, to evaluate their ability to do the job that must be done and to recommend changes wherever it is necessary to do so. And it is asked to determine how much it will cost to do the job and how to pay this cost.

"This is the task that the Governor's Committee is being asked to perform. Its task is to:

1. identify the best possible educational program for the Commonwealth.

2. review the present legal and administrative machinery to determine its adequacy for the job ahead and to recommend changes wherever they are needed.

3. make a realistic estimate of the cost of carrying out the recommended programs, especially over the next ten years, on an annual basis.

4. indicate alternative state and local revenue sources which may be available to meet this cost.

5. recommend a pattern for future sharing of educational costs as between the state and the localities."

"Penn State," says Dean Rackley, "is vitally concerned with the work of the entire Committee and not simply the task force on Higher Education. The Commonwealth supplies most of our students; what goes on in the elementary and secondary schools most certainly affects the product with which we have to work.

"We are at least five years late with this study, probably more. Other states have preceded us with overall planning by many years and already have their programs in operation. We can't afford to delay."

Adds Dr. Christie: "When the final program suggested by the Committee comes before the Legislature, it will need public support. Only through the grass roots will the lawmakers know that the public is genuinely interested in doing something about its educational system. There can be no attitude of 'Let George do it.'"

➤ **BOOK:** A grant of \$7,300 to support the publication of an underwater acoustics handbook written by Dr. Vernon M. Albers, chief scientist and professor of engineering research at the Ordnance Lab has been awarded by the National Science Foundation.

The book will be published by the University Press. It will provide a convenient and authoritative one-volume source of underwater sound data and information.

Items of interest

Books

BRENEMAN, J. W., engineering mechanics, the third edition of the textbook, "Mechanics" published by McGraw-Hill, in use in many associate degree programs in colleges and technical institutes.

Honors and Awards

RIGLEY, H. H., JR., and HAYES, R. B., Air Force ROTC, recipients of the Boy Scouts of America Appreciation Awards.

The Arts

PAPPAS, GEORGE, art and art education, a painting titled "Rock Harbor, Orleans" exhibited in the Boston Arts Festival in June.

Elected or Appointed

CARPENTER, C. R., DARS, appointed to the advisory committee to assist in the planning of a new state university at Boca Raton, Fla.

HICKS, ROLAND, journalism, elected regional dean of District Two, American Academy of Advertising.

MOURANT, J. A., philosophy, elected president of the Western Pennsylvania Philosophic Society at its Spring meeting.

ROSE, ARTHUR, chemical engineering, appointed chairman of a symposium, "Separation Processes in the Petroleum Industry," which is to be given before the petroleum division of the American Chemical Society in April, 1961, in St. Louis, Mo.

Articles and Papers

ANDREWS, FRANCES M., music education, an article "We Are Born to Inquire . . ." in the April-May issue of the Music Educators Journal.

BROWN, J. L., JR., Ordnance Research Lab, an article "On the Cross Correlation between Two Noisy Channels" in the March issue of "I.R.E. Transactions on Information Theory."

BUFFINGTON, A. F., German, a paper, "Teaching Beginning German by Closed-Circuit Television," in the March issue, German Quarterly.

ENDLER, N. S., division of counseling, a paper to appear in the Journal of Counseling Psychology on "Changes of Meaning during Therapy as Measured by the Semantic Differential."

GOODMAN, LIONEL, chemistry, co-author of three papers, along with graduate students, presented at the Symposium on Molecular Spectroscopy and Structure at

Ohio State University, on "Ionization Energies of Conjugated Hydrocarbons"; "Intra-molecular Twisting Effects on Anisole Spectra"; and "Solvent Effects on n-Pi Transitions. Emission and Adsorption."

GROOMS, R. R. and ENDLER, N. S., Division of Counseling, an article in the October, 1960 issue of the Journal of Educational Psychology, on "The Effect of Anxiety on Academic Achievement."

HARRIS, D. B., psychology, a paper titled "Homemade Problems. Sensitivity to Others and a Sense of Responsibility," before the 64th annual convention of the National Congress of Parents and Teachers, in Philadelphia.

KLAUS, E. E., petroleum chemistry, a paper for the Symposium on Gyro Spin-Axis Ball Bearing Research at Boston, June 22-23, on "A Look at Lubricant Stability."

KNIFFIN, F. W., marketing, a bibliography, "Retail Credit and Collections" published by the Small Business Administration.

MASTRO, A. J., accounting, co-author of article in the April issue of Accounting Review, titled, "An Evaluation of a Slide-Lecture Method For Teaching a Large Section of College Auditing."

MORSE, J. M., English composition, an article, "Burrus, Caseous, and Nicholas of Cusa," in the current issue of Modern Language Notes.

PALLADINO, N. J., nuclear engineering, co-author of a 32-page report, "The Engineering Design of Power Reactors," in the June, 1960 issue of Nucleonics.

REMICK, F. J., Nuclear Reactor, a paper on "Five Years of Operating Experience with a University-Owned Reactor," at Reactor Conference at Gatlinburg, Tenn., Aug. 17-19.

THEURING, G. L., industrial engineering, co-author of a paper on "Machinability of Nodular Cast Irons — Part I, Tool Forces and Flank Adhesion," at the annual conference of the Production Engineering Division, American Society of Mechanical Engineers.

WILLIAMS, P. N., acting chaplain, an article on "Doing as One Pleases," in the July issue of "The Pulpit."

Lectures and Talks

BEAVER, PAUL S., Continuing Education, three addresses at the Westminster College ninth annual Industrial Management Workshop, on "The Manager Looks at the Future"; "The Human Side of Your Management Job"; and "A New Look at Policy Formulation."

DAWSON, R. E., Scranton, a talk on "You and Your Community," before the annual meeting of the Scranton Association of Life Underwriters, at Mt. Pocono, Pa., June 15.

DENNIS, L. E., vice-president, on a panel on "The Orientation of the New College Teacher," at the meeting of the Committee on Teaching in Colleges and Universities of the Association for Higher Education.

FENSKE, M. R., chemical engineering, the keynote technical address at the annual meeting of the Pennsylvania Grade Crude Oil Association in Bradford on June 2, on "The Road Ahead in Lubricants."

KNIFFIN, F. W., marketing, a talk before the marketing personnel of the International Paper Company Container Division, at Haddonfield, N. J., on "The Economic Prospects for the 1960's and Their Marketing Implications."

MORGAN, WINONA L., child development and family relationships, a talk on July 27 at the 51st convention of the American Home Economics Association, on "Implications of the White House Conference for Home Economists."

MURRAY, R. K., history, an address on "A Professor Looks at the Challenges of His Profession," at the annual banquet of Phi Alpha Theta, honorary history fraternity.

PIERS, ELLEN V., psychology, talks on "The Nature and Measurement of Intelligence" and "Psychological Problems of the Physically Handicapped and Mentally Retarded" at the Workshop of the Penna. Society for Crippled Children and Adults, in Pittsburgh.

REMICK, F. J., nuclear reactor, a talk on "Nuclear Research Efforts at Penn State that will Benefit Pennsylvanians" at the Spring meeting of the Clinton County Engineering Society.

RUEF, RUTH R., Home Economics, a talk on "Responsibility of Home Economists to Family Economics of the Aging," before the Nutrition, Health and Welfare sections of the American Home Economics Association at its annual meeting June 28-July 2.

SPENCE, C. C., history, spoke on "The American Frontier — Myth and Reality" at the annual initiation banquet of Phi Beta Kappa, national scholastic honor society.

ZELKO, H. P., speech, a talk on "Communication in Management" at the American Management Association meeting in New York.

faculty BULLETIN

Vol. 48, No. 2

July 15, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, July 22

Lecture-recital by Claremont String Quartet, 8 p.m., HUB Assemblyroom.

Saturday, July 23

Square dancing, 9 to 12 p.m., HUB Ballroom.

Sunday, July 24

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, acting University chaplain.

Summer Sessions Band Concert, 7 p.m., on the Mall in front of Library, or Schwab Auditorium in case of rain. James W. Dunlop, professor of music, directing.

Monday, July 25

Registration for second Six-Weeks Session, 8 a.m. to 11:30 a.m., Willard Building. Classes begin at 2 p.m.

Summer Sessions Sing, 8 p.m., Schwab Auditorium.

Duplicate Bridge, 7 to 10 p.m., HUB Card Room.

Opening night of Mateer Playhouse production of Shakespeare's "Twelfth Night," 8:40 p.m. (Runs for two weeks.)

Tuesday, July 26

Claremont String Quartet Concert, 8 p.m., HUB Ballroom.

Wednesday, July 27

George Latshaw, puppeteer, presents "Hand in Glove," a puppet show for adults, 8:30 p.m., Schwab Auditorium.

Outdoor movie, "Mister Cory," with Tony Curtis, 9 p.m., lawn south of HUB.

Thursday, July 28

Summer Sessions Symphony concert, 8 p.m., Schwab Auditorium, conducted by Lowell M. Boorse.

Saturday, July 30

Square dancing, 9 to 12 p.m., HUB Ballroom.

Sunday, July 31

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel.

NEWS IN BRIEF

➤ **PUPPETS:** George Latshaw, noted puppeteer, will present a program in Schwab Auditorium on July 27, at 8:30 p.m., titled "Hand in Glove."

The program is planned especially for adults and includes such elements as "The First Lady is the Last to Arrive"; "This Hammer for Hire"; and "Space is Way Out."

Latshaw is currently teaching a course in the history, theory, and practice of puppetry, designed both for teachers who hope to use puppetry in their classrooms and for students who would enjoy using puppetry for expression.

There is no charge for this performance.

➤ **MUSIC:** A number of programs of music will be presented in the next week, on campus.

On Sunday, July 24, the Summer Sessions Band, directed by James W. Dunlop, professor of music, will give a concert on the Mall in front of Pattee Library, at 7 p.m. In case of rain, the program will be given in Schwab Auditorium. The program will include selections from Baeh, Thomas Darcy, Frank Erickson and from Jule Styne's "Gypsy."

The ever-popular Student Sing will be held as usual on Monday at 8 p.m. in Schwab Auditorium. Faculty and staff members are invited to take part in the Sing, which is directed by Frank Gullo, with Hummell Fishburn and Elmer C. Wareham at the piano.

On Tuesday, July 26, the Claremont String Quartet will present its third concert of the summer season in the HUB Ballroom at 8 p.m.

The Summer Sessions Symphony Orchestra, directed by Lowell M. Boorse, will give a concert at 8 p.m. on Thursday, July 28 in Schwab Auditorium. Boorse is associate professor of music at the Ogontz Campus.

Included in the program will be Bizet's Symphony in C; Debussy's Petit Suite; and Rimsky-Korsakoff's Polonaise from "Christmas Night."

➤ **ALUMNI:** Two sessions of Alumni College will be held in August, offering a select program of liberal studies for alumni who want to combine informal study with vacation on the campus.

The sessions will be held Aug. 1-6 and Aug. 8-12, with classes from 9 a.m. to noon and free time in the afternoon and evening. Five courses will be given in the first session but the second session will be devoted entirely to leadership training.

Dr. Ralph W. Condee, assistant di-

rector for humanities in Continuing Liberal Education, will teach a course in Modern Fiction. Other courses will include Politics, with Dr. Robert W. Iversen, assistant director for the social sciences; Introduction to the Humanities, by Dr. Harrison T. Meserole, assistant professor of English literature; Ways of Mankind, by Dr. Margaret B. Matson, associate professor of sociology; and Looking at Modern Painting, by Dr. Kenneth Beittel, associate professor of art education.

➤ **TELEPHONE:** The 1960-61 University telephone directory is now in the process of being edited and changes in the directory should be reported immediately, says Wilbur F. Diehl, supervisor of telephones.

In particular, Diehl advises, departments should check the departmental listings in the back of the Faculty Directory and report inaccuracies to him, at the Telephone Building, UN 5-7573.

"No request for changes will be sent to departments this year as in the past," Diehl adds. "We have encouraged the sending of these changes whenever they occur so that complete and accurate information is available to our operators at all times."

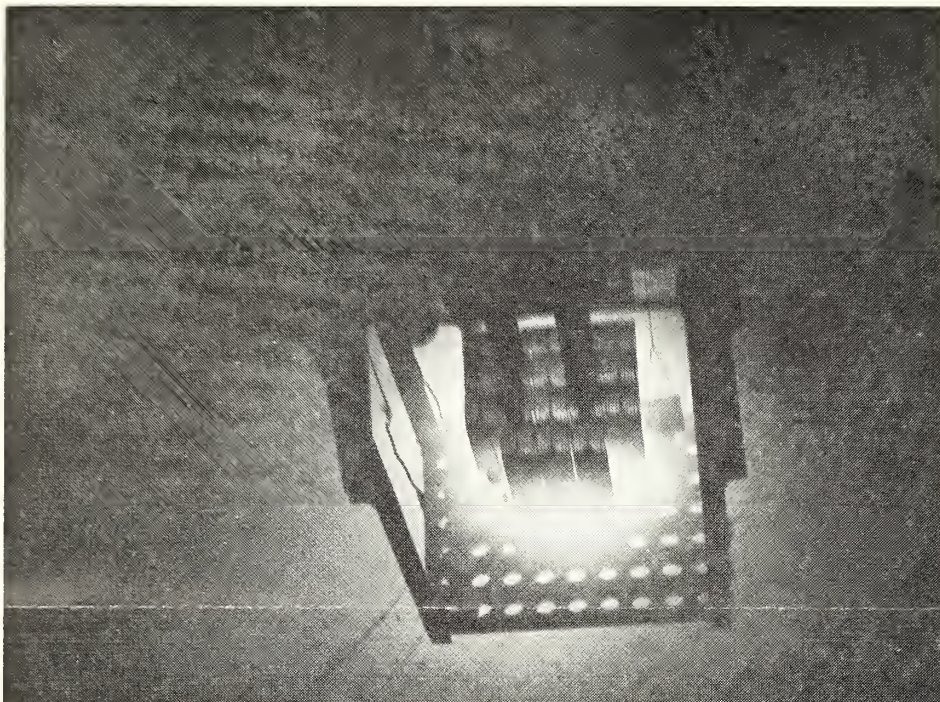
Diehl also noted that changes in the listings of individuals should be reported. Official directory cards should be used for this purpose and sent to Chief Operator, Telephone Building.

➤ **EXAMS:** The regular written Foreign Language Examinations will be held on Monday, Aug. 1 at 7 p.m. Exams in German will be in 111 Boucke, those in French and Spanish in 10 Sparks, and those in English in 205 Sparks. The conflict examination in German will be held on Tuesday, Aug. 2 at 7 p.m., in 217 Willard.

➤ **BOOK:** Dr. Carl J. Schaefer, associate professor of industrial education, is co-author of a book titled, "Manufacturing in the School Shop," published by the American Technical Society, along with Dr. Robert W. Haws, professor of industrial arts education at Ohio State University. The book is intended for junior and senior high school industrial arts classes.

➤ **STEELWORKERS:** The first week-long institute for Steelworkers, conducted by the department of labor education, was held this week with a group of about 100 in attendance. Five other institutes will follow, bringing in all a total of 600 or more steelworkers to the campus. A series of

(Continued on page three)



This unusual photo shows the glow from the fuel elements of the University's Research Reactor since the power level of the Reactor was doubled, after approval of the Atomic Energy Commission. The higher power level will permit many more experiments and reduce radiation time required. The picture, taken by Ed Leos, shows the active lattice at the bottom of the Reactor pool.

More Power

Reactor usefulness grows

DOUBLING of the operating power level of the University's Nuclear Reactor will add materially to its usefulness in research and teaching, says Forrest J. Remick, acting director of the Reactor.

Authority to increase the power level to 200 thermal kilowatts was granted by the Atomic Energy Commission after a six month evaluation period by the Reactor staff and an independent hazards evaluation by the AEC.

"The increased power level," says Remick, "will not only reduce the irradiation time of many experiments, but also open the door for additional experiments hitherto impossible because of the lower power level."

There are currently more than 70 University faculty members and graduate students using the Reactor in various research programs. During the first five months of 1960, an average of 4.8 different experimenters used the reactor each day, and there were an average of 6.2 different samples next to the reactor or thermal column for the complete day. The reactor was operated 7.5 hours each day, the remaining 1.5 hours being devoted to starting up, maintenance, experimental set up and changeover.

During the 1959 calendar year, according to an annual report of the Reactor, the facility was in operation

a total of 1,666 hours, producing 120,000 kilowatt hours of energy.

Currently there are research projects in the departments of chemistry, physics, agricultural biochemistry, engineering mechanics, electrical engineering, fuel technology, bacteriology, and nuclear engineering which require use of the Reactor. In addition, HRB-Singer, Inc., Bell Telephone Laboratories, the Philco Corporation's Lansdale Tube Division, the Pittsburgh Plate Glass Co., International Business Machines Co., and the U. S. Naval Air Development Center, have made use of the facility for experimental purposes.

As an educational tool, the Reactor facility serves several hundred students each semester in their Physics 237 course, when they study the fission process and fission reactors. For use in Chemistry 405 each spring a quantity of short-lived isotopes is produced for radio-chemical instruction.

Nuclear Engineering students in N. E. 502 spend 56 hours at the Reactor conducting 14 nuclear engineering experiments. A graduate Home Economics class observes irradiation of foodstuffs.

In still another use, the Reactor is the scene of a six-weeks institute conducted for the Atomic Energy Commission and the American Society for Engineering Education, enrolling instructors from technical institutes throughout the country. A four-week seminar was held last summer for industrial scientists and engineers.

And finally, the Reactor has been the scene of visitations by many scientists from all over the world. Penn State's Reactor has an international reputation.

Major medical plan

MANY faculty and staff members have already found the recently-installed Major Medical Expense Plan useful, says J. W. Wilson, supervisor of employee benefits division, but others who might have done so may not have taken advantage of their eligibility under the plan.

The plan was installed on May 1 to supplement the benefits of the Hospital Plan, providing coverage not previously available.

"Some faculty and staff members," says Wilson, "may not be familiar with the fact that payments may be made for illnesses even though the person is not hospitalized. If the medication and doctor bills over a three-month period exceed \$100, and these are not covered under the Hospital Plan, then Major Medical will pay 80% of the excess, whether the patient was in the hospital or not."

It is also pointed out that a number of services are covered under the new plan which might not be considered by the claimant under usual circumstances. These include private nursing service, x-rays, laboratory tests, use of radium and radioactive isotopes, oxygen, iron lung, physiotherapy, and similar services, whether provided in the hospital or at home.

Wilson also notes that it is possible for a person to have two or more claims at the same time, citing the case of a claimant receiving payments from the Equitable Life Assurance Society for three illnesses concurrently. As long as the expenses for each cause of illness exceed \$100 in a three-month period, the person may make claims for each illness.

Further information concerning Major Medical may be obtained in the Employee Benefits Division office, 304 Old Main, UN 5-6521.

Super survey snooper



A new aid to surveyors — the civil engineering kind who measure distances and angles — was demonstrated to students and faculty at the Civil Engineering camp recently by engineers of the Michael Baker, Jr., consulting firm. Called a Tellurometer, it is a microwave device, which can measure how far it is from here to there 35 miles away with extreme accuracy. In front row are Benjamin A. Whisler, head of the civil engineering department, Robert D. Scheirer, professor of civil engineering, and engineers D. W. Martin and James Ellis, operating the equipment.

News —

(Continued from page one)

afternoon sessions for the wives of steelworkers has been arranged for the first time and includes classes on fabrics, diets, home decoration, and gardening.

► **HONORED:** The "Pioneer Award" for 1960 of the American Association of Agricultural Editors has been given to William H. Folwell, III, assistant professor of agricultural extension, whose noontime "Farm, Home and Garden" telecast reaches into homes in nearly half the State.

The award, which was presented at the association's annual meeting at Corvallis, Ore., July 18-20, is based on professional achievement and promise for continuing development. It memorializes pioneer leaders in agricultural communications.

► **AEC GRANT:** A grant of \$51,762 has been made by the Atomic Energy Commission for high temperature materials research.

Under the direction of Dr. G. W. Brindley, head of the department of

ceramic technology, a study will be conducted on the electrical properties of non-metallic materials at high temperature, particularly behavior during high-temperature reactions and transformations. The sum of \$19,416 has been provided for this research.

Dr. M. E. Bell, assistant dean for research in Mineral Industries, Dr. Rustum Roy, professor of geochemistry, and Dr. Christopher Crowe, assistant professor of geophysics, will do research involving high temperature-high pressure physical property measurements, for which \$32,346 has been allocated. Development of facilities for measuring resistivity and other properties under high pressure and temperature is sought.

► **ARCHEOLOGY:** Dr. William T. Sanders, assistant professor of anthropology, and 15 graduate students are currently conducting an archeological field study in the Teotihuacan Valley of Mexico. Purpose of the 14-week study is to trace the history of human occupation of the area by investigation of the pre-Hispanic sites there. A grant of \$1,000 from the Pan American Union is aiding the research.

Expansion notes

CONTINUED expansion of the University Park campus is noted in a number of announcements made within the past couple weeks.

The General State Authority has approved three new projects, estimated to cost \$7,642,000, including a wing to the south of Recreation Building, at a cost of \$2,862,000; an addition to the Electrical Engineering Building, \$1,070,000; and facilities for the arts and humanities program, \$3,710,000.

Last weekend occupancy was begun of the new apartments for married graduate students on east campus. Eighty of the units are ready and the remaining 136 units will be released for occupancy early next month. The project consists of 43 buildings, each two-story, and contain apartments consisting of living-dining space, kitchenette, one or two bedrooms, bathroom, and storage space. Much of the furniture is built-in.

Initial steps in the construction of the new Education Building were also taken, when ground was broken on the site on the southeast corner of Beaver Field. Construction of the new horticultural research facilities, east of Tyson Building, has also been started. Structural steel has been erected for the Special Education Building along Park Ave. Completion of this building is expected in February.

\$9.8 Million

The latest GSA announcement includes three projects which were among five authorized for the University by the Legislature last December, when the borrowing capacity of the Authority was increased. In this action, projects costing over \$9.8 million were approved, including in addition to those cited above, additions to the Research Reactor, a new building south of the Reactor to house two accelerators and related laboratories; addition of a boiler and other facilities to the Power Plant, and the extension of utilities. Architects are now drawing plans for the Reactor facilities.

The addition to Rec Hall will include more gymnasium floor space, basketball courts, locker rooms, classrooms, and offices.

Definite plans for the electrical engineering addition and the arts and humanities facilities have not been drawn up nor have sites been selected. The arts and humanities project will provide classrooms, offices, and other facilities for work in theatre arts, music, communications, and other programs of the College of the Liberal Arts.

Personnel matters

Samuel B. Shenk, a member of the county agricultural agent staff since 1921, retired on June 30. He had been Armstrong County agent since 1923, after serving as assistant agent in Adams County. A 1921 graduate of the University, Shenk was a 1956 recipient of the distinguished service award of the National County Agents Association.

William R. King, member of the county agricultural agent staff since 1955, has been selected to succeed Mr. Shenk in Armstrong County. A 1951 Penn State graduate in animal husbandry, King also received his master's degree from the University. He has assisted Shenk since 1951, first as assistant county agent and later as associate agent.

William B. Crafts, who received his doctor of philosophy degree at the June Commencement, and who has been assistant to the dean of men, has been named dean of men at the University of Pittsburgh. He has headed the residence hall counseling program.

Anna Worrell, librarian at the Ogontz Campus for the past 10 years and for 11 years librarian for the Ogontz Junior College, has retired. She attended Swarthmore, Wisconsin, and Drexel and has taught in secondary schools in Jenkintown, Nesquehoning, and Wilmington, Del.

Dr. John E. Pixton, assistant director for instruction at the Ogontz Campus, has been granted a year's leave of absence to serve the American Friends Service Committee as field director of its Algerian Refugee Program in Morocco. He will head a staff of 15 people which will arrange for the transportation of supplies across Morocco to aid homeless victims of the French-Algerian war.

Senate Minutes

Annual Reports of Committees

Research Policy

The Research Policy Committee of the Senate held five meetings during the academic year and discussed a number of items relating to encouragement and promotion of research in the University. We submitted one report to the Senate dealing with the subject of encouraging research and other scholarly activity. This recommendation was accepted. Another recommendation to be presented at the June 2 meeting of the Senate deals with the matter of funds for library books and periodicals.

Attempts were made to survey various interested groups throughout the University to determine subjects that the Research Policy Committee could discuss. As a result of this survey, items dealing with encouragement and promotion of research will be considered during the coming academic year.

Joseph Marin, Chairman

Rules Committee

The Rules Committee of the Senate has met once each month during the Academic Year 1959-60. During this period it has recommended the following changes in the Constitution and By-Laws of the Senate:

1. Modification of the structure of the Senate Committee on Student Affairs. This modification approved by the Senate at the January 1960 meeting.

2. Modification of Membership Rules of the Senate to admit Directors of Commonwealth Campuses and the Coordinator of Commonwealth Campuses. This was approved by the Senate at the January 1960 meeting.

3. Modification of Membership Rules to correct certain unbalance in the body of the Senate. This proposal was voted down at the February 1960 meeting.

The Rules Committee has also proposed the following changes in the Senate Regulations for Undergraduates.

1. Modification of Rule K-9. Action taken at February 1960 meeting.

2. Modification of H Rules. Approved at January 1960 meeting.

3. Modification of Rule X-9. Referred to Senate Committee on Athletics at January 1960 meeting and action taken at the February meeting.

4. Modification of all Undergraduate

Rules A-U to make them applicable to Commonwealth Campuses. Information that this would be done administratively given to Senate at October 1959 meeting.

5. Modification of Rule E-3 to be proposed to Senate at June meeting. Addition of Rule B-5 and modification of Rules M-9 and I-10 also proposed.

J. M. Anderson, Chairman

Faculty Affairs

Much of the work of the Senate Committee on Faculty Affairs during this year was done by sub-committees, but the full committee also met for extended meetings on six occasions. Several of the meetings were held with invited representatives of the President's office present. An informational report covering the activities of the Committee was presented to the Senate on April 7 and subsequently appeared in the Faculty Bulletin, hence, there seems to be no good reason for reproducing it here.

The following sub-committees are active: Sub-committee on Fringe Benefits; Sub-committee on Faculty Club; Sub-committee on Retirement Plan; and Sub-committee on New Auditorium.

The Sub-committee on Faculty Club presented a report for presentation to the Senate on June 2, requesting authorization to continue work with representatives of the administration to develop a specific, definitive proposal that will be presented to the Senate next Fall for approval.

The Sub-committee on Retirement Plan has prepared and forwarded to the administration a factual report, RETIREMENT AND INSURANCE PLANS IN AMERICAN COLLEGES, with the recommendation that an investigation be made of the feasibility and legality of the following:

1. Making membership in TIAA (Teachers Insurance Annuity Association) optional with each faculty member to replace the state retirement plan.

2. Changing the state retirement plan to include full and immediate vesting.

The Sub-committee on Fringe Benefits is surveying the fringe benefits in selected, comparable universities and will present a summary of the results in the Fall of 1960.

The Sub-committee on New Auditorium is surveying facilities at other institutions with particular reference to methods of financing construction, and will report at a later date.

James Gemmell, Chairman

faculty BULLETIN

Vol. 48, No. 3

July 22, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

Faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Saturday, July 30

Square dancing, 9 to 12 p.m., HUB Ballroom.

Sunday, July 31

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Mark Gibbs, news editor, "Frontier," Manchester, England.

Organ recital by George E. Ceiga, University organist, 8 p.m., Schwab Auditorium.

Monday, Aug. 1

Summer Sessions Sing, 8 p.m., Schwab Auditorium.

Duplicate bridge, 7 to 10 p.m., HUB Card Room.

Second week of Mateer Playhouse production of Shakespeare's "Twelfth Night." 8:40 p.m.

Tuesday, Aug. 2

Final concert by Claremont String Quartet, 8 p.m., HUB Ballroom.

Wednesday, Aug. 3

Outdoor movie, 9 p.m., lawn south of HUB. "A Night to Remember," with Kenneth Moore.

Thursday, Aug. 4

Folk Singer Richard Dyer-Bennet, in Artists Series program, 8:30 p.m., Pavilion (formerly Ice Rink).

Friday, Aug. 5

Summer Sessions BOC Chorus concert, 8 p.m., Schwab Auditorium.

Saturday, Aug. 6

Square Dancing, 9-12 p.m., HUB Ballroom.

SCHOOL BUILDINGS

The Pennsylvania Department of Public Instruction Newsletter notes that one of every five public school buildings in the Commonwealth was built before 1900, out of a total of 5,217. Since 1950, however, 890 new school buildings have been constructed and are now occupied by 23 per cent of all public elementary and secondary school pupils.

NEWS IN BRIEF

► **COMMENCEMENT:** Summer Session Commencement will be held on Friday, Aug. 12, at 6 p.m. (please note that the hour has been changed from that which appears in some publications).

If the weather is favorable the exercises will be held on the lawn in front of Pattee Library. If not, Recreation Building will be used.

The Summer Sessions Band, under the direction of James W. Dunlop, and the Summer Sessions Chorus, under the direction of W. Paul Campbell, will provide music for the occasion.

There will be no faculty procession, nor will academic dress be required. Faculty members and their families will be able to sit together.

Candidates for degrees are advised that dinner will be available for themselves, their parents, and their friends in the Redifer Hall dining room. Tickets, at \$1.50 each, must be purchased in advance at Redifer Hall. It is suggested that they be obtained as early as possible during the week of Aug. 8.

► **AWARDS:** Two publications produced at the University have been granted top awards by the American Alumni Council.

A folder titled "2 plus 2 equals 4," planned by Susanne E. Smith, assistant to the director of the Alumni Fund, received first award in the classification of Corporate Matching Gift Solicitation.

Bernard P. Taylor, director of the Penn State Foundation, planned the brochure "Investment in Creative Giving" which tied for first place in the classification of Estate Planning.

Both publications were designed, edited, and produced by the department of publications.

► **PATENT:** U. S. Patent No. 2,938,484 has been granted to David C. Garland, assistant professor of engineering research at the Ordnance Research Lab for a torpedo loading device, which is useful in hoisting torpedoes during loading or removal operations in submarines.

► **TEACHING:** Young engineering teachers from colleges and universities all over the country will attend a Summer Institute on Effective Teaching August 29 to September 9.

The Institute is endorsed by the American Society for Engineering Education and the Engineers' Council for Professional Development. Dr. Otis E. Lancaster, George Westing-

house professor of engineering education, will direct the Institute.

A grant of \$50,000 from the Ford Foundation will assist the program, which is designed to give young teachers the opportunity to study and practice successful teaching procedures.

The initial step in a three-part program, the Institute will be followed by an expanded and improved conference next year and in 1962 experienced teachers will receive instruction on conducting similar programs.

► **CONCERT:** University organist George E. Ceiga will present a concert at 8 p.m. on Sunday, July 31 in Schwab Auditorium. The concert will include works by Campra, Bach, Arne, Messiah, Swinnen, Britten, and Ceiga's own Four Themes for "Antigone." Sowerby's Deus Tuorum Militum will conclude the concert.

► **WINNERS:** Four agricultural and home economics extension information pieces won top honors for "excellence" at the annual meeting of the American Association of Agricultural College Editors.

Blue ribbon winners were still pictures on tractor safety, a set of color slides on peach disease identification, a radio script service, and a television film on news coverage at the Farm Show. Red ribbons, for entries rated "good," were gained by a radio training letter, radio tape on the Farm Show, a publication on 4-H, and for press service.

Elton B. Tait, associate professor of agricultural extension, was inducted as president of the Association.

► **HANDICAPPED:** The Pennsylvania Department of Health has renewed a contract with the Speech and Hearing Clinic which will make it possible for the University to continue its program of providing services to handicapped children.

Diagnostic, consultation, and advisement service is provided children with speech and hearing defects at no charge to the individual. Examinations and tests are given to children of all ages and from all sections of Central Pennsylvania.

A similar program is also conducted for the State Bureau of Vocational Rehabilitation and its clients.

► **ARMED FORCES:** Correspondence instruction for service personnel is offered by 44 universities, Penn State among them, under the U. S. Armed Forces Institute.

Penn State's courses range from ac-

(Continued on page two)

Better students use DOC

Goal of the Division of Counseling is to help all students, and more than a thousand are aided yearly.

THE Executive Committee of the Board of Trustees, on April 2, 1948, approved the establishment of a Division of Intermediate Registration and said, in part:

"The College (University) in granting admission to a student has an obligation to provide the best possible means of correcting student maladjustments because the College itself will often be found contributory to the troublesome situations."

DIR, which was incorporated as a part of Division of Counseling in 1956, was designed to give counseling but was often thought of as an interim period for students in scholastic difficulty as they transferred from one curriculum to another or ultimately were dropped completely. The old "Transition Section" had some of the same attributes.

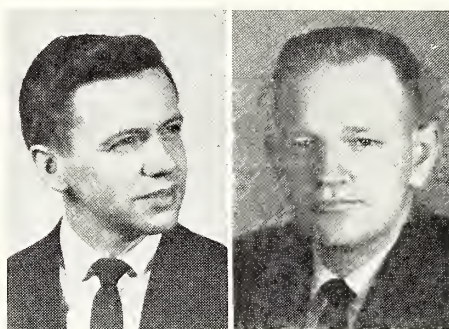
"Today," says Dr. Donald H. Ford, director of DOC, "many of the 1000 students registered with us each year are not in real danger of flunking out, but have come to us because they are not satisfied that they are working to the right goal or are making progress toward a goal they had previously chosen."

"Yes, we do a 'salvage job', but not in the sense that we attempt at all costs to keep a poor student going. We are doing him a much better service when we tell him we think he should not be in college, should go to school somewhere else, or possibly should change to another type of education, such as he might get at a technical institute or in associate degree program."

Evidence of Dr. Ford's point was the experience last summer, when 68 upperclassmen in difficulty came to the campus with their parents for conference. The entire picture was "spelled out" for the student and for the parents. Some were told flatly that their chances of being successful here were slim. Of the 68, 20 did not return to classes in the fall, for various reasons. Some may come back eventually, or go to another college, because their troubles could be solved in time.

"The 48 who did come back," says Dr. Jefferson Ashby, assistant director of DOC, "compiled a Fall Semester average of slightly over 'C', compared to an average of about 'D' previously."

In a ten-year period, from 1948-1958, 1555 students seeking counseling help from DOC eventually qualified for degrees. Obviously not all of



Ford

Ashby

these were in dire straits and there were about twice as many (Ashby estimates) who did not graduate from Penn State. But saving an average of about 150 students a year who might otherwise have never completed college is good justification for the counseling effort.

In the early days of DIR University rules required all students attaining a 0.50 average or lower to go into the Division or drop from college. A study of the experience of DIR students who graduated showed that the grade point average of students entering was 0.5 (under the old system of grading), but that after one year in DIR the average was 1.4 and the year following their DIR experience students attained a 1.5 average.

"It is obvious that the counseling and scheduling aid students got in DIR had a lasting effect," says Dr. Ashby.

Certainly it must be admitted that many students then came to DIR because they were in scholastic difficulty and sought a different curriculum because they believed this to be a good method of staying in college. Undoubtedly some do today. But, Dr. Ashby contends, we should be interested not alone in the fact that a student is failing but also in the reasons for his failure.

"The reasons," he points out, "may very well be that the student is in the wrong curriculum, but they may be related to personal problems, which come to light because the student's grades are poor."

It is estimated that of the more than 3500 interviews conducted by DOC last year, about eight per cent were classified "personal problems" but how many of the remaining cases were also of this nature may not have been revealed. Faculty members, Dr. Ford says, can often spot troubles in their early stages if they are looking for them, but considering the wealth of professional help on the campus, it is frequently advisable for them to refer students to other offices for additional study of the case.

"Our goal," says Dr. Ford, "is to help all students who need help. We need to take a positive approach to the counseling problem, rather than being on the defensive all the time. That is the reason we are happy that students in good standing come to us when they feel they need it, rather than waiting until, under University regulations, they are forced to come."

Sometimes, Dr. Ashby contends, the student's horizons are broadened considerably by counseling; the narrow goals he had when he entered college are extended far beyond his imaginings. He has a far better chance of finding what he is best suited to and, in the long run, the University will have more adequately fulfilled the obligation the Board of Trustees expressed more than a decade ago.

News —

(Continued from page one)

counting to mining, and enrollment in these courses has nearly doubled since 1955, with 1,217 active students. All but 270 are enrolled for college credit courses.

O. F. Spencer, supervisor of correspondence instruction administers the University courses. He points out that the most popular course here is algebra.

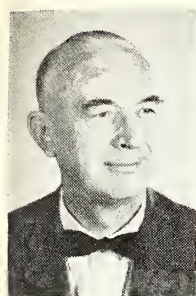
➤ **FOLK SINGER:** Richard Dyer-Bennet will present a concert of songs from England, Ireland, Scotland, Wales, Sweden, Austria, Germany, Italy, Spain, France, and the United States at 8:30 p.m. at the Pavilion (formerly known as the Ice Rink).

The songs range from the 13th to the 20th century. Some are folk songs, some art songs by anonymous composers, and some are art songs by well known composers.

No tickets are required for admission to this performance. If the weather should be especially inclement, the program will be transferred to Schwab Auditorium.

Dyer-Bennet made his concert debut in Town Hall in 1944. He makes an annual tour and is well known for his recordings and night club engagements.

Personnel matters



Frink

Dr. Orrin Frink, head of the department of mathematics, has been given a grant for teaching and study in Ireland by An Bord Scoilaireachtaí Comalairte, which administers the Educational Exchange Program in Ireland. The program

is similar to the Fulbright grants.

From Oct. 1960 to June 1961, Dr. Frink will give lectures and conduct seminars on mathematics for undergraduate and graduate students at University College, Dublin. He plans to continue his research in lattice theory and topology.

RESIGNATIONS

Among resignations announced recently are those of **Dr. W. Conard Fernelius**, **Dr. J. Norton Brennan**, **Dr. Gerald K. Gillan**, **Dr. William S. Ray**, **Robert G. Lauffer**, and **Mrs. R. Mae Schultz**.

Dr. Fernelius, professor of chemistry since 1949 and head of the department until this year, has accepted a position as assistant director of research at Koppers Company, Inc., in Pittsburgh.

Dr. Brennan, associate professor of engineering mechanics, has taken a position at the U. S. Naval Nuclear Ordnance Evaluation Unit, Kitland Air Force Base in New Mexico. He joined the faculty in 1949 as instructor in physics at Mont Alto.

Dr. Gerald K. Gillan has joined Modjeski and Masters, consulting engineering firm in Harrisburg, as associate partner. He has been on leave for the past year to work with the firm on special projects in the design and construction of large bridges. He came to Penn State in 1952 and was professor of civil engineering.

Also a member of the faculty since 1952, **Dr. William S. Ray**, associate professor of psychology, has resigned to take a position on the psychology staff of Woman's College, University of North Carolina.

Lt. Col. Lauffer, associate professor of poultry husbandry, who has been on leave serving in the U. S. Marine Corps, will remain in the Corps. He came to Penn State in 1949.

Mrs. Schultz has been assistant to the dean of women since 1950 and has taken a position as dean of women at Muskingum College, New Concord, Ohio. She has been successively residence hall director, assistant to the

dean in charge of student activities, and assistant dean in charge of freshman women.

LEAVES

Leaves of absence and extension of leaves have been announced for the following:

Dr. Edgard F. Bertaut, assistant professor of chemistry, through June 30, 1961. He has received a post-doctoral fellowship to conduct studies of the surface properties of glass and other materials, working with the Mineral Industries Experiment Station. The fellowship has been provided by the Owens Illinois Co.

Dr. William Craig, associate professor of mathematics, is at the University of California at Berkeley serving as visiting associate professor of mathematics and doing research and study, while on leave for the 1960-61 year. His study concerns problems of axiomatizability and the syntactical role of theoretical terms in scientific systems.

J. Stanley Cook, associate professor of English, is presently teaching courses in English at an American educational center in Porto Alegre, Brazil. His leave will end on Feb. 28. The program in which he is taking part is in American studies and is designed for adults.

Dr. Joseph der Hovanesian, assistant professor of agricultural engineering, has been granted a year's leave of absence to teach at Wayne University, Detroit, Mich.

Wilber W. Ward, associate professor of forestry, will continue his studies toward the doctor of forestry degree at Yale University during a one-year leave which began July 1.

David E. Cummings, instructor in English, who is currently studying toward his doctor of philosophy degree at the University of Pennsylvania, has been granted an extension of his leave until June 30, 1961.

George A. Etzweiler, instructor in electrical engineering, is one of three engineering instructors in the country selected to receive a Standard Oil Foundation, Inc., fellowship for 1960-61. He will use the fellowship to complete his doctorate here and has been granted a leave of absence from Sept. 1 to June 30.

Darwin G. Braund, instructor in dairy science extension, will work toward his masters degree while on leave from Sept. 16 to June 30, 1961. He has been awarded an assistantship in dairy management at the University of Wisconsin.

Dr. Eugene S. Lindstrom, associate professor of bacteriology, has been granted a six-month leave, starting Feb. 1, 1961, to do research and study in the field of photosynthesis at the University of Minnesota.

G. William Henninger, professor of music, plans to write a textbook in the field of music theory during a year's leave, starting Sept. 1.

Dr. Michael A. Farrell, associate dean of the College of Agriculture, will conduct a study for the U. S. Department of Agriculture on the operations and procedures employed in regional research while he is on leave from Sept. 1 to Aug. 31, 1961.

Thomas E. Mott, instructor in mathematics, has been awarded a National Science Foundation Science Faculty Fellowship and will be on leave for a year, beginning in September, to devote his time to writing a thesis for his doctor of philosophy degree in mathematics from Penn State, in the field of mathematical analysis.

Dr. Hans A. Panofsky, professor of meteorology, has been granted a leave from Aug. 1 to July 31, 1961, to study atmospheric turbulence at the University of Cambridge, England, for six months, under a Guggenheim Fellowship. The final six months he will serve as visiting professor of meteorology at the University of Minnesota.

APPOINTMENTS

The following appointments to the faculty, effective in June or July, have been announced:

Agriculture

Costenbader, Marveline L., asst. extension home economist

Firth, Betsy Jane, asst. extension home economist

Hack, L. Carlene Suloff, asst. extension home economist

Hammers, Sandra M., assoc. extension home economist

Kimble, Robert L., asst. county agricultural agent

Larson, Donna E., asst. extension home economist

Leitzinger, Frances Kaye, research asst., bacteriology

Nesbitt, Margaret A., asst. extension home economist

Plotts, Richard N., asst. county agricultural agent

Shearer, John Z., county agricultural agent

Zepp, Glenn A., asst. county agricultural agent

Chemistry and Physics

Klement, Ulrich E., research assoc. in physics

McLane, S. Brooks, Jr., research asst. in physics

Mineral Industries

Sun, E-Tu Zen, visiting research associate

Senate Minutes

Annual Reports of Committees

Athletics

The Committee met four times and also sat on three occasions with the Athletic Advisory Board. Various subcommittees held a number of meetings.

The Committee performed its regular functions of approving athletic schedules, certifying the eligibility of students for participating in sports, and providing formal excuses for class absences for regularly scheduled athletic events.

In letters to the Director of Athletics, the Committee reported as ineligible a total of 95 candidates for varsity and freshman sports, and 35 candidates for managers of these sports.

Richard W. Hammond, a varsity lacrosse player, was awarded the annual medal as the student who best combined scholarship with athletics; his all-university average was 3.15. The cumulative average of all letter winners for the past year was 2.35.

In November the Committee approved the football team's participation in the Liberty Bowl if the coaches and the team so desired.

The Committee approved, with minor changes, the addition of the new rule X-9 in the Senate regulations.

Once again the Committee wishes to thank Mrs. Royer for typing assistance.

M. N. McGeary, Chairman

Student Affairs

This year, the Senate Committee on Student Affairs approached its work with a consciousness of the fact that this aspect of the educational experience the University offers its students has not received a careful review and evaluation in some time. In the belief that one reason for this was the burden of administrative detail that the Committee has borne, a burden which kept it from operating effectively in its proper policy-making and advisory role, the Committee has conscientiously transferred administrative functions to the appropriate administrative officers of the University. As a step in this process, the Committee recommended simplification of its sub-committee structure, a step in which the Senate concurred and one which also served to emphasize the counseling, rehabilitative emphasis of the discipline aspects of the Committee's work.

The Committee found that there exists on

the campus a multitude of administrative policies and procedures, some of which are based on Senate action and rules and all of which are of concern to students and those interested in their affairs. In an attempt to compile these policies and procedures so that they may be made available to students in written form and also to review their impact on student affairs, the Committee asked various administrative offices for a compilation of the policies and procedures they follow. As the year ends, most offices have replied and the last replies that are needed for completing the compilation may be on hand shortly.

Recognizing that the Committee's interest in student affairs extends to all campuses of the University, the committee has established basic policies and working relationships with the student affairs officers of all campuses and has established a means of coordinating some of the activities in this area on all the campuses. In other areas, primarily those relating to discipline, the policy permits each of the campuses to develop its own "common law" after consultation with University Park.

In cooperation with Associated Student Activities and Student Government Association, the Committee has begun a review of the activities and impact of all chartered student organizations. It is our intention to evaluate the reports of their activities, when submitted in April 1961, in terms of criteria for evaluating the contribution of student activities to the educational experience available to students of the University. In cooperation with ASA and SGA, the Committee has already begun an investigation of the activity status of all chartered organizations and of their financial condition.

The responsibilities of this Committee are many and varied and ramify into almost every segment of the student's life and the University's organization. It is therefore fortunate that the Committee has had the cooperation of almost all the administrative offices with which it has dealt.

Monroe Newman, Chairman

Calendar and Class Schedules

During the 1959-60 academic year the Senate Committee on Calendar and Class Schedules met on seven occasions to consider matters under its jurisdiction. Principal matters considered were the establishment of a new calendar system, the length of time between classes, modification of the present calendar policy, the reduction of the number

of students taking conflict examinations, and the granting of a special half holiday.

The discussion of a new calendar resulted in the presentation to the Senate of a resolution stating that the University could operate with equally good academic standards under the quarter system as under the present semester system. This resolution was approved by the Senate.

The Committee recommended that the present time between classes be unchanged, but obtained approval from the Senate for an experimental modification of the class schedules for military classes in the Wagner building. This was approved by the Senate. In addition, the Committee recommended that a special signal be added to the Old Main clock to indicate the time of termination of classes. The administration approved this and will establish such a signal on an experimental basis in the near future.

A proposal to eliminate mid-year commencement in order to reduce the number of conflict examinations was rejected by the Administration on the basis that the mid-year commencement was necessary for public relations reasons. The Senate approved a proposal to establish a penalty for filing conflict examination requests after the deadline established for that purpose.

The Committee officially proposed to the Senate two different methods of having 15 full weeks of classes during each semester and two informal proposals were made for the same purpose. All four of these were rejected by the Senate. Two other proposals were considered by the Committee but were not proposed to the Senate as they did not seem to be so practical as those already rejected.

As a result of the activities of the Senate Committee on Calendar and Class Schedules during the 1959-60 academic year little change in calendar and class schedule policy in the University has been made.

B. A. Whisler, Chairman

Scholarships and Awards

The Senate Committee on Scholarships and Awards wishes to report the following activities for the year 1959-1960.

1. One hundred and three scholarships were awarded.
2. A John W. White Medalist was selected.
3. Nominations were made for Fulbright Fellowships.
4. Grants-in-Aid were reviewed.

Joseph F. Bradley, Chairman

faculty BULLETIN

Vol. 48, No. 4

July 29, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

**MRS T I MAIRS
PATTEE LIBRARY**

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Aug. 5

Summer Sessions BOC Chorus concert, 8 p.m., Schwab Auditorium.

Saturday, Aug. 6

Square Dancing, 9-12 p.m., HUB Ballroom.

Sunday, Aug. 7

Summer Sessions BOC Student Recital, 8 p.m., Schwab Auditorium.

Monday, Aug. 8

Opening night of Mateer Playhouse production of "Playboy of the Western World," 8:40 p.m. Runs one week.

Duplicate bridge, 7 to 10 p.m., HUB Card Room.

Tuesday, Aug. 9

Summer Sessions Chorus concert, 8 p.m., Schwab Auditorium.

Wednesday, Aug. 10

Summer Sessions Orchestra concert, 8 p.m., Schwab Auditorium.

Outdoor movie, 9 p.m., lawn south of HUB.

Thursday, Aug. 11

Summer Sessions Band concert, 8 p.m., Schwab Auditorium.

INVENTION

Dr. George U. Oppel, professor of engineering mechanics, has invented two types of photoelastic strain gages which provide accurate visual indication of stresses and strains without complicated computations.

The gages, which are now being manufactured, are used on wood, concrete, or metal specimens which are under test. Other gages made for the same purpose are more expensive and heavier than Dr. Oppel's.

Dr. Oppel, a native of West Germany, came to Penn State in 1956. The research which is the basis for the new gages was started in 1937, when he was at the Technical University of Munich.

NEWS IN BRIEF

► **COMMENCEMENT:** Approximately 600 undergraduate and graduate degrees will be conferred at Commencement Exercises on Friday, Aug. 12 at 6 p.m.

If the weather is favorable, the program will be held on the lawn in front of Pattee Library; if not, Recreation Building will be used. The Summer Sessions Band and the Summer Sessions Chorus will present several musical selections.

There will be approximately 380 advanced degrees conferred and 237 bachelor's degrees.

► **MUSIC:** Five musical events, the first this evening, highlight the concluding week's Summer Sessions activities in the music department.

The BOC Chorus, directed by W. Paul Campbell, associate professor of music education, will present its final concert this evening at 8 p.m. in Schwab Auditorium. The Chorus consists of 50 high school students who have received special attention during the Summer Session.

Sunday, the Student Recital, which consists of many instrumental and vocal soloists and small groups, will be given in Schwab Auditorium at 8 p.m. Barry S. Brinsmaid, assistant professor of music, is directing this program.

The Summer Sessions Chorus, which includes graduate and undergraduate students as well as BOC members, will give a concert on Tuesday, Aug. 9, at 8 p.m. in Schwab Auditorium. Frank Gullo, associate professor of music, directs this chorus of about 100 voices.

On Wednesday, the Summer Sessions Orchestra concert will be held at 8 p.m. in Schwab, with Lowell M. Boorse, associate professor of music, directing.

James W. Dunlop, professor of music education, directs the Summer Sessions Band concert on Thursday, Aug. 11, at 8 p.m. in Schwab.

► **PLAYHOUSE:** A widely read but rarely presented Irish comedy by J. M. Synge is the next production of Mateer Playhouse. "The Playboy of the Western World," a folk yarn of a simple boy who became a hero in an Irish pub, will begin a week's run on Aug. 8 at the Playhouse at Neff's Mills.

Frank Browning has the lead role as Christy and Patricia Thompson as Pegeen Mike.

Curtain time is 8:40 p.m.

► **HILLEL:** Rabbi Norman T. Goldberg, for the past five and a half years

Rabbi of Congregation Agudath Jacob, in Waco, Texas, has been named to succeed Rabbi Benjamin H. Kahn as director of B'nai B'rith Hillel Foundation of the University.

Rabbi Kahn is now national director of the B'nai B'rith Hillel Foundations, Washington, D.C.

A graduate in mathematics at Roosevelt University, Chicago, Rabbi Goldberg was ordained at the Hebrew Theological College in Chicago. He has served at the College and taught courses in Talmud, Hebrew, Bible, and History. He served 18 months in Korea as an Army chaplain and received the Bronze Star before discharge in 1954.

► **DELAY:** Use of the recreational facilities at the new Shaver Creek Dam at Stone Valley Recreation Area has been delayed while the lake is being cleared and beaches and other facilities are constructed.

Dr. Peter W. Fletcher, who is head of the committee developing plans for the use of the area, says that the remainder of the summer will be needed to complete this work. Picnic areas and sandy beaches will be constructed as funds become available from alumni and other private sources.

The Recreation Area covers a 575-acre tract which includes the 72-acre lake impounded by the newly constructed dam.

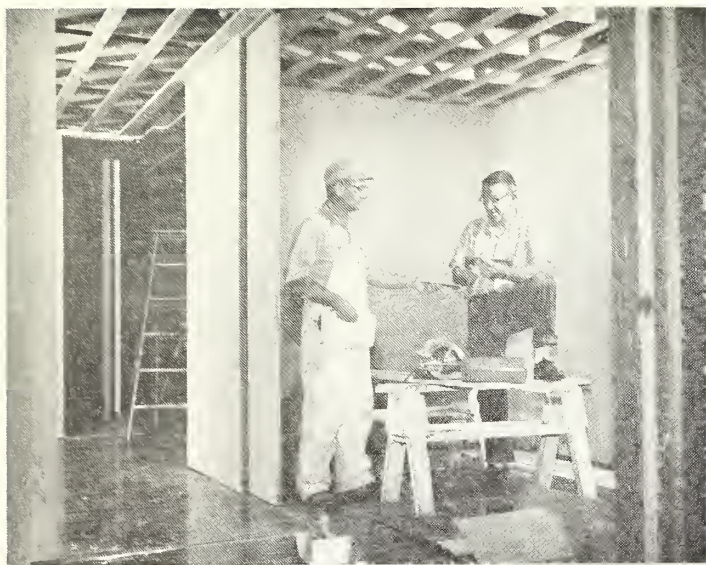
In addition to swimming and boating in the lake, fishing is expected to become a big activity. The Committee plans, subject to the approval of the Pennsylvania Fish Commission, to stock the lake with rainbow trout and other species of fresh water fish.

► **RESOLUTIONS:** Appreciation for the services of three former members of the Board of Trustees was expressed in separate resolutions adopted by the Executive Committee of the Board at its meeting on July 29.

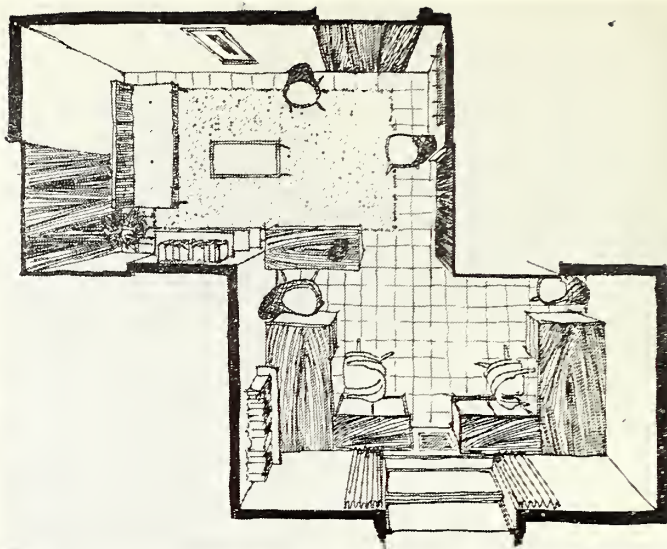
The three were Fred E. Bittenbender, elected by delegates of the agricultural societies on July 1, 1948 and reelected and served continuously until June 1960; Joseph T. Kennedy, ex officio member since 1955 as Secretary of Mines and Mineral Industries; and Mrs. Ethel Sparks Sparks, who served from 1951 until June, elected by alumni of the University.

► **VISIT:** Members of the House and Senate Agricultural Committees visited the University on Monday and Tuesday of this week and were conducted about the campus by President

(Continued on page two)



Workmen Amos Lightner and Harold Kerstetter, above, construct new faculty offices in McAllister Hall. These are of experimental design, as illustrated at right in the drawing and the photo of a model and will be removed once experimenting is completed. The design is an attempt to combine efficiency with spaciousness and usefulness.



New Design

Faculty office study

THE "Faculty Office of the Future" is rapidly taking shape in McAllister Hall.

In reality, the construction currently going on in the one-time residence hall is an experiment, but if it proves successful, architects not only here but all over the country may change their concepts of academic building design.

Walter H. Wiegand, head of the department of physical plant planning and construction, conceived the new design as a way to provide flexibility, efficient use of space, and an interrelationship of groupings of offices not possible with conventional design.

Ford Foundation's Educational Facilities Laboratory provided a grant of \$7,500 to aid the study and the University's Division of Academic Research and Services, under Dr. C. R. Carpenter, set up a study to evaluate the design. The study will include faculty reactions, from those who will use the full-scale mockups being built and those who will view the spaces during tours.

The basic design of office combines a two-man desk area with a reception area, offset from the former in such relationship to give the impression of roominess. The combined area provides the same equivalent space per person as that commonly used in prac-

tice today.

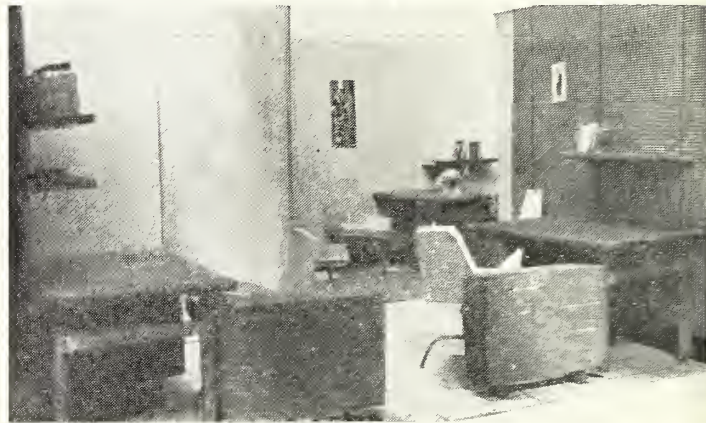
Several or many of these basic units can be combined in the design of a building if it seems desirable.

The experimentation will include not only considerations of the basic design but also such other factors as soundproofing, lighting, color schemes, furnishings, and many others.

"This experimentation shows clearly," says Dr. Carpenter, "that we are facing up to the needs for academic office space. I am sure that this is the first time any study has been made which has sought faculty opinion on the subject in this manner. Sometime later we will invite 8 to 12 faculty members to occupy these offices for the fall semester and a different group for the spring semester."

Flexibility in furnishings is also indicated in the new design, although the basic unit envisages two good size desks and working top, plus a visitor's chair in the office section, and a sofa plus other chairs and a small table in the reception area. Wall shelves will be numerous for book storage.

At present a six-room "building" is under construction in Mac Hall, with sliding wall sections to increase the flexibility of the experimentation. Walls and ceilings are soundproofed.



News —

(Continued from page one)

Eric A. Walker and C. S. Wyand, vice-president for development.

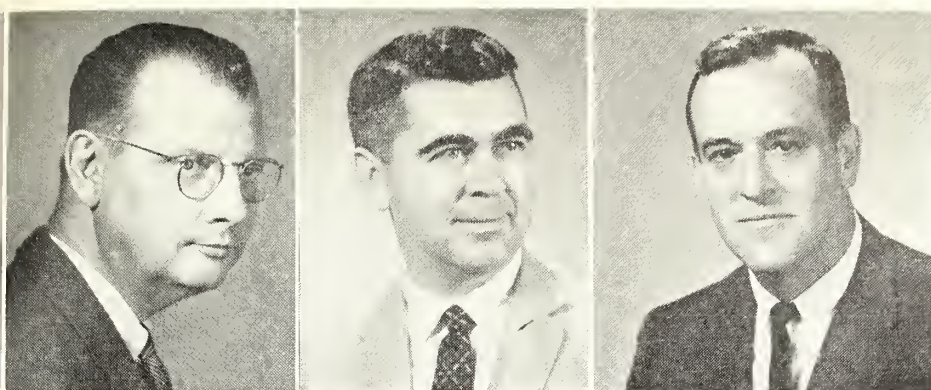
The visiting delegation included 34 persons headed by Sen. Albert E. Madigan, of Towanda, chairman of the Senate Committee, and Rep. E. J. Farabaugh, of Loretto, vice-chairman of the House Committee.

In June, members of the House and Senate Appropriations Committees visited the University and next month members of the House and Senate Education Committees will be here.

► **LAUNDRY:** Six hospitals have been added to the list of institutions now receiving the Institutional Laundry Service which was developed by Dr. Joseph F. Krawiec, associate professor of clothing and textiles research, in 1936.

About 65 hospitals, schools and other public institutions are on Dr. Krawiec's calling list each year, when he makes suggestions to improve operations in their laundries. Through his help, it is estimated, the State is saved thousands of dollars yearly.

The latest hospitals to ask for the service are in Charleroi, Elmira, N. Y., Philadelphia, Danville, Bethlehem, and Pittsburgh.



Lindsay

Mattil

Stahl

Personnel Matters

Department heads selected

APPOINTMENTS of four heads of departments were announced by the Board of Trustees last week. They include **Dr. Edward A. Mattil**, art education, **Dr. C. Drew Stahl**, petroleum and natural gas engineering, **Dr. A. Madison Brewer**, elementary education, and **Dr. Robert W. Lindsay**, metallurgy.

Mattil succeeds Dr. Viktor Lowenfeld, who died in May. A Penn State graduate, he also received master of arts and doctor of education degrees here. He began his teaching career in 1940 in Cumberland, Md., schools and from 1941 to 1946 was art supervisor in the Wallingford, Pa., schools except for a three-year leave for service in the Army. He headed the art program in State College schools from 1946 to 1952. He joined the University faculty in 1955, after serving as visiting professor of art education at the University of Southern California.

Stahl was named to the faculty in 1947. He obtained all three degrees from Penn State in petroleum engineering, the doctorate in 1954. His research here has been concerned with multiphase flow in porous media. He succeeds Dr. Robert L. Slobod, who will concentrate his attentions on research activities.

Brewer is a graduate of Eastern Washington College, Cheney, Washington, and obtained both master's and doctor of education degrees from Colorado State College. He served as teacher and principal in public schools in the State of Washington from 1936 to 1946, when he assumed the post of principal of the College of Education School of Eastern Washington College. From 1951 to this year he has been chairman of the department of education at the University of Nebraska. He succeeds Dr. Charles M. Long, who earlier this year joined the staff of the International Cooperation Administration in Washington.

Lindsay succeeds Dr. Amos J. Shaler, who has resigned from the faculty.

Joining the faculty in 1943, Lindsay left in 1957 to accept a position as supervisor of research on constructional alloy steels with the Crucible Steel Co. of America but returned in June, 1959. He has been acting head of the department for the past year. A graduate of Tufts, with a bachelor of science in chemical engineering, Lindsay received master of science and doctor of science degrees in metallurgy and physical metallurgy at Massachusetts Institute of Technology.

* * *

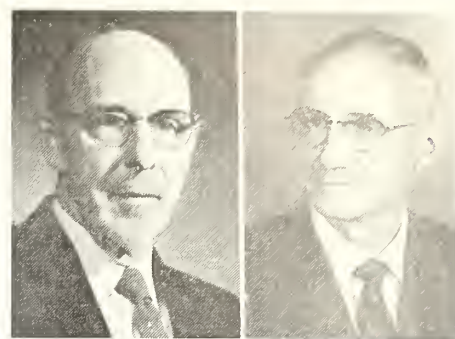
Margaret A. Neuber, professor of education, has been recognized in a new book, "Practical Programs for the Gifted," by Jack Kough, published by Science Research Associates, Inc., Chicago, Ill. Miss Neuber is noted as one of the best-known gifted-child experts in this country.

Dr. Frederick B. Marbut, professor of journalism, is currently teaching a short course in journalism in the British West Indies, at Kingston, Jamaica, offered by the Federation of the West Indies and the International Educational Exchange Service of the State Department. Students include members of the newspaper staffs on the islands. He will return Sept. 15.

Muriel E. Starr, associate professor of home management, who has served on the faculty since 1948, has resigned to accept a position on the faculty of Kent State University, Kent, Ohio.

Dr. Alfred L. Bortree, head of the department of veterinary science, has

(Continued on page four)



Zoller

Mead

Emeriti named

FOUR faculty members have retired with emeritus rank, conferred by the Board of Trustees last week.

Dr. Douglass S. Mead, professor of English, has served the University for

40 years, teaching some 36 different courses, from freshman English to Germanic philology. He has supervised 56 graduate theses in English and helped to initiate the graduate program. A graduate of Dickinson College, he holds a master's degree from Columbia and Princeton and a doctorate from Princeton.



Tanner

Sheldon C. Tanner, professor of business law, retired July 31 with a record of having taught nearly 20,000 students in his 33 years at the University. A graduate of the University of Utah, he earned a master's degree in economics there. He took additional work in economics and law at the University of California, and studied in a law office for five years. Before coming here in 1927 he taught at the University of Utah and the University of California.

Edwin W. Zoller, assistant director of the Center for Continuing Liberal Education, began his teaching career in the high schools of Pittsburgh, as teacher of art. His first association with Penn State was with Penn State's Teacher Training Extension programs at Altoona and Pittsburgh, from 1927-33, as lecturer and instructor in fine arts. Subsequently he became administrative head of the Sayre-Towanda Center of Central Extension, one of the first two Centers. He transferred to the Dubois center and was there from 1935-42. Following four years of military service, where he rose to the rank of lieutenant colonel, Zoller became associate professor of fine arts

(Continued on page four)

Senate Minutes

Annual Reports of Committees

Military Instruction

1. The Committee recommended that any student enrolled in the AFROTC program at Altoona and Hazelton Campuses (where the program was discontinued) prior to July 1, 1959, and who transferred to the University Park Campus with less than four semesters of instruction should be exempted from any additional courses under the direction of the AFROTC. Students from Altoona and Hazelton who wished to take more courses should be permitted to do so.

2. The Committee recommended to the Air Force that it take action as soon as possible to implement the new Air Force R.O.T.C. policy which proposes to alter the basic air force program by substituting regular for military courses; the committee also recommended to the Army that it take action as soon as possible to implement the new Army R.O.T.C. policy which proposes to alter the advanced army program by substituting regular for military courses.

3. The Committee served in an advisory capacity to the Dean of Men on administrative matters dealing with student requests for exemptions from R.O.T.C.

J. G. Rayback, Chairman

Emeriti —

(Continued from page three)

at the Altoona Center, came to University Park in 1956 as professor of fine arts.

C. Aubrey Thomas retired as professor emeritus of entomology after serving the University for more than 35 years, most of it in laboratories near Philadelphia. A 1921 graduate of Penn State, he spent the next year at the Bustleton Research Station. From 1922 to 1925 he was a junior entomologist at Riverton, N. J., after which he returned to Bustleton. He later transferred to Kennett Square, where he has been working with mushroom growers on insects and diseases affecting production of mushrooms and other food products.

Personnel —

(Continued from page three)

been granted a leave from Sept. 1 to Aug. 31, 1961, to take advantage of a National Science Foundation science faculty fellowship. He will work at the College of Veterinary Medicine, University of California, conducting research on mastitis.

Dr. Hugh S. Brown, professor of education, plans to devote the fall semester to preparing manuscripts on university teaching and organization while on leave.

Dr. Frank J. Sorauf, assistant professor of political science, will teach and conduct research at the University of Arizona during the next academic year.

Orvel A. Schmidt, associate professor of forestry, will conduct an educational forestry program in Santiago, Chile, from September through November while on leave. The program is under the auspices of the International Cooperation Administration. He will teach and demonstrate methods of efficient utilization of forest products, in a program similar to that he conducted last summer in Panama.

Dr. Richard N. Krogh, assistant professor of Romance languages, has been awarded a post-doctoral Fulbright research grant to teach English in South America and will be on leave from Sept. 1 to June 30, 1961. He will be at Central University, Quito, and at the University of Guayaquil.

Dr. James R. Bloom, associate professor of botany and plant pathology, will be on leave from Jan. 1 to June 30, 1961 to study and do research in nematology at North Carolina State College.

Richard D. Guild, instructor in industrial engineering, plans to work toward his doctorate at Northwestern University, in the field of operations research.

Dr. Thomas C. Benton, professor of mathematics, will be on leave during the Spring Semester to travel to England to consult on courses in advanced hydrodynamics and similar fields and to do some research in applied mathematics.

Charles W. Mann, Jr., curator of rare books and manuscripts, will attend Rutgers

University Graduate School of Library Service to work on his master of library service degree from Oct. 1 to June 30, 1961.

Allen W. Burns, instructor in history at the Behrend Campus, will continue studies toward his doctorate at Columbia University, while on leave from Sept. 1 to June 30, 1961.

Thomas D. Larson, instructor in civil engineering, will study toward his doctorate in civil engineering at Penn State during a year's leave of absence. He has received a research grant, sponsored jointly by the Pennsylvania Electric Association and the Metropolitan Edison Co., to do research on fly ash use in concrete.

Appointments

James B. Wadsworth, for the past year visiting professor of French, Queen's College, has been named associate professor of Romance languages. He is a graduate of the University of London, with master of arts and doctor of philosophy degrees from Harvard. He taught at Harvard from 1947 to 1959.

Other recent additions to the faculty include the following:

Ackerman, Carter L., res. asst., Engineering research

Barnes, Hubert L., asst. prof. of geochemistry

Harvey, Henry B., asst. prof., Engineering research

Klopfenstein, William E., instructor, agr. and biochemistry

Lerner, Harry, res. asst., Engineering research

Lex, Mary Jane, assoc. ext. home economist

McDivitt, James F., asst. prof., mineral economics

Purucker, Beatrice L., asst. ext. home economist

Rollin, Jess E., res. asst. in Engineering research

Shemick, John M., assoc. prof., industrial education

Spencer, Stephen B., instructor, dairy science extension

Stuby, Richard, asst. county agricultural agent

faculty BULLETIN

Vol. 48, No. 5

Aug. 5, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MISS MILDRED AILMAN
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Personnel matters

LEAVES

Dr. John A. Mourant, professor of philosophy, plans to do research on medieval philosophy and writing on a text on logic during a leave of absence from Feb. 1 to June 30, 1961.

Dr. Jerry W. Stannard, instructor in philosophy, has been granted a leave from Sept. 15 to June 30, 1961 to accept an appointment to The Johns Hopkins Medical School for research in medical history. He plans to study the history of early science, particularly Greek and Renaissance medical history.

Dr. Aline H. Frink, associate professor of mathematics, will accompany her husband, Dr. Orrin Frink, while he is teaching and studying in Ireland from Sept. 1 to June 30, 1961. She plans to continue translating a Russian book in mathematics and do some research in calculus of variations while on leave.

Dr. Stanley H. Rosen, assistant professor of philosophy, has received a Fulbright research award which he will use to study in Paris during a leave from Sept. 1 to June 30. He will study the nature of Hegelian and Marxist philosophies and later will travel to Rome to analyze the effects of Hegel and Marx on Western political theory.

Dr. Bruce M. Siegenthaler, associate professor of clinical speech, has been granted a leave for the Spring Semester to do some professional writing on speech and hearing and observe clinical audiology programs.

(Continued on page four)

NEWS IN BRIEF

► **HEARING:** Residents of the State College area who have taken part in the current survey of hearing being conducted by the Human Factors Research Program will receive a report of the results of their otological examination and audiometric test if they have not already done so.

The survey is being conducted by Dr. John F. Corso and so far has involved about 125 residents, halfway through the study.

Dr. Corso points out that the result forms which will be sent to every participant also contain an interpretation in a simplified form of their results and suggestion as to whether further medical consultation seems advisable.

► **FOOTBALL:** Faculty and staff members may still order season tickets for the 1960 home football games, although the deadline has passed. Tickets may be ordered by mail, if accompanied by a check or money order, from the Athletic Association, 249 Recreation Building. Inquiries by phone should be made to R. A. McDowell, UN 5-7567.

► **CHESS:** The Penn State Chess Club invites faculty members to its weekly meetings in the HUB cardroom each Tuesday from 7 to 10 p.m. The Club will meet Aug. 16, 23, and 30 before disbanding for the summer season. Activities will be resumed in the fall and again faculty members are invited to join.

► **POST SESSION:** Registration for Post Session will take place on Monday, Aug. 14, in the morning and classes will begin at 2 p.m. Classes for this session and for the Second Six Weeks session end on Friday, Sept. 2 at 6:20 p.m.

► **LIBRARY:** Pattee Library will follow a new schedule in the period of Aug. 14 to Sept. 2. Daily hours, Monday through Thursday, will be 7:50 a.m. to 9 p.m.; Friday, 7:50 a.m. to 5 p.m.; Saturday, 9 a.m. to 5 p.m.; Sunday, closed all day.

► **PLAYHOUSE:** Mateer Playhouse will present "The Male Animal" by James Thurber and Elliott Nugent as its next production, Aug. 15-20. This is ever-popular story about a college campus, "eggheads," football heroes, alumni, and other assorted characters.

The final play of the season will be William Gibson's "Two for the Seesaw," scheduled for Aug. 22-27.

► **BROADCASTING:** An undergraduate major in broadcasting, for students wishing professional training for radio and television careers, will be offered

beginning with the fall semester. The School of Journalism, department of speech, and department of theatre arts as well as the Division of Academic Research and Services are cooperating in offering the major. Marlowe D. Froke, assistant professor of journalism, has been named chairman of a special University Committee on Broadcasting to administer the major.

► **BOOKS:** The following schedule for release of books published by The Pennsylvania State University Press in the next few months has been reported by T. Rowland Slingluff, director:

Sept. 16 — Visio Pacis: Holy City and Grail, by Helen Adolf.

Sept. 21 — The Joyce Country, by William York Tindall.

Oct. 15 — Proceedings of the 13th National Conference on the Administration of Research.

Oct. 21 — Underwater Acoustics Handbook, by Vernon M. Albers.

In November, titles and publication dates of books scheduled for winter and spring release will be announced.

► **HONORS:** A total of 980 students earned averages of 3.50 or higher for the Spring Semester; of these, 174 had perfect 4.0 averages. The breakdown of those making the honor rolls of the various colleges shows that Agriculture had 63, Business Administration 51, Chemistry and Physics 87, Education 272, Engineering and Architecture 129, Home Economics 41, Liberal Arts 165, Mineral Industries 48, Physical Education and Athletics 16, Counseling 9, and Associate Degree candidates 99.

► **PROMOTIONS:** The following members of the faculty have been advanced from associate professor to professor, effective July 1, 1960:

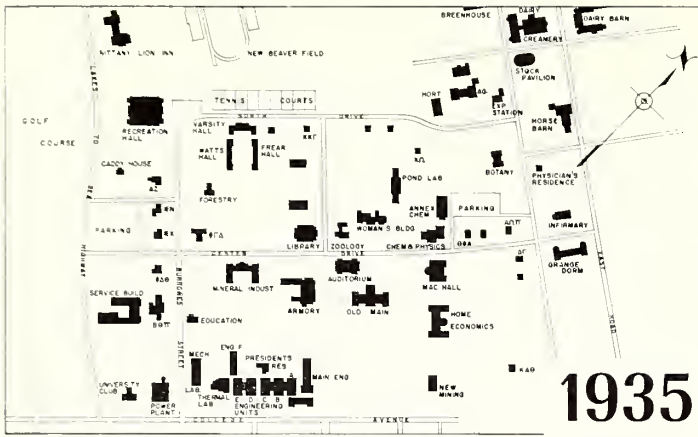
Agriculture — Lloyd E. Adams, George P. Barron, Emory J. Brown, William T. Butz, Henry H. Chisman, Robert F. Gentry, Frederick A. Hughes, William F. Johnstone, Leon R. Kneebone, M. Frank Mallette, Kenneth R. Slamp.

Chemistry and Physics — Norman C. Deno, Joseph Jordan, Philip S. Skell, Thomas Wartik, and Harry D. Zook, assistant head of the department of chemistry.

Engineering and Architecture — Charles C. Dillio, Clifford B. Holt, Jr., Carl Voltz.

The Liberal Arts — James B. Bartoo, Samuel P. Bayard, Arthur O. Lewis, Jr.

Mineral Industries — Charles L. Hosler and Howard B. Palmer.



A QUARTER CENTURY

Comparison of maps of the campus 1935 and 1960 (below) graphically illustrates the tremendous change at Penn State in a quarter-century, but not even these maps can delineate all the changes. The two maps are on almost exactly the same scale.

THERE are about 130 members of the present Penn State faculty who were here 25 years ago and, if their memories are sharp, can verify the fact that more students applied for entrance to the college that year than could possibly be admitted.

The familiar ring to the story only serves to bring into sharp focus the fact that, even with 25 years of tremendous growth, the problems of a University remain virtually the same; only the magnitude and the details vary.

For example, in the depression days of 1935, Penn State's big worry was the State appropriation. There was an added concern: even though money had been appropriated for the 1933-35

biennium, the State treasury was unable, as of the close of the fiscal year, to reimburse the University for vouchers totaling \$1,603,529 and money had to be borrowed by the Trustees to pay salaries, etc.

The request made by President Ralph Dorn Hetzel to Governor George H. Earle in the fall of 1934 called for a biennial State appropriation of \$5,352,500, which was to include \$135,000 to take care of the expenses of repairing the Dairy Building and \$1,007,500 for new buildings. The \$4,210,000 for maintenance represented no change from the previous biennium, but the Governor, in his message to the Legislature, reduced the request to \$3,400,000. Ultimately

an appropriation of \$3,658,000 was approved. For the 1959-61 biennium, the appropriation is \$34,277,335.

The financial picture has changed drastically in 25 years. The total income has increased from \$4,302,400 to \$45,470,956 (for 1958-59, the latest figures available), an increase of ten times.

Most significant, however, is the fact that the Commonwealth's share of the University's total income has dropped from 45.6% to 32.2% in the past quarter-century and that income from student fees, in spite of the fact that they have increased from \$133 per year to \$480 per year, has dropped from 26.5% of the total income to 17.4%.

1960



The slack in the fiscal rope has been taken up by a dramatic increase in aid, of one form or another, from the Federal Government; 12.9% in 1935, 18.4% now and also from private gifts and grants, earnings of departments and auxiliary enterprises, which showed an increase from 15.0% to 35%.

The Campus

Visually, the biggest change at Penn State in a quarter-century is obviously the physical plant.

When mapmakers plotted the grounds in 1935, they usually set as borders Park and College Avenues on north and south, "Lakes to Sea" Highway on the west, and "East Road" for the fourth boundary. Today the western boundary has been stretched slightly but the most drastic change has taken place to the east, where "East Road" (called Shortlidge now) is about in the center of the map.

There were 52 buildings on campus in 1935 and the physical plant was valued at \$32.5 million, in terms of 1960 dollars. Today there are over 160 principal structures and the total valuation of the University plant is about \$110 million. There were then 70 acres of lawns to take care of on the main campus and three acres of parking areas; today there are 175 acres of lawns and 26 acres of parking space.

Most dramatic has been the expansion of residence hall facilities which, in 1935, consisted of Tri-Dorms (capacity 300), McAllister Hall (150), Woman's Building (100) and Grange Dorm (100). With occupancy of the new Pollock Residence Halls, capacity 1960 is 8,500. President Hetzel's early request for additional coed rooming space has been heeded; there is now room for 3,835 women students in the residence halls.

But the campus is now, *moreso* at least than in 1935, the entire State, since there are seven Commonwealth Campuses and six Centers. In 1935, there were four undergraduate centers, all just a year old and all providing only a one-year program. They enrolled a total of 300 students. This year enrollment in four-year programs at Commonwealth Campuses was over 2,000 and in associate degree programs (given also at the centers) was over 1,500.

The Faculty

Twenty five years ago, the College had seven Schools and offered undergraduate instruction in 42 different curricula. There were 1095 undergraduate courses, 357 on the 400 level, and 456 graduate courses.

To handle this teaching load there was a faculty numbering 511 of in-

structor level or higher. The total staff, including faculty, administration, and extension, was 1,015. Today, approximately comparable figures are 1,700 and 2,900 for about 2,200 undergraduate and 1000 graduate courses.

A report of the U. S. Bureau of Education for 1935 showed that faculty salaries were pegged to the times: instructors earned \$2,200, assistant professors \$2,500, associate professors \$2,800, full professors \$3,700, and deans of the schools \$7,120. There had been no salary changes from the previous year.

As today, the Senate was the educational policy-making body of the faculty. Its total membership then was 97, today it is 275. Of the 1935 members, only Hummel Fishburn is a senator today and only F. J. Bedenk remains also as a member of the faculty.

No deans or department heads of the 1935 period hold comparable positions today.

Prior to 1935 the principal faculty welfare program in effect was life insurance, but during the year Governor Earle signed legislation enabling faculty and staff members to become members of the State Employees' Retirement System. Since then other programs have been added, including employee and dependent hospital and surgical expense and, this year, major medical expense plans. Of great importance to the faculty also was the adoption on July 1, 1952 of a policy on academic freedom and tenure.

A major step being taken in 1935, President Hetzel noted in his year-end report, that a "committee of the faculty has been making a thorough study of the summer session to recommend any changes which will make it of greater service to all the schools of the College and to all students."

The Student Body

There was a problem of too many students in 1935, as today, even though the depression was still in effect. Enrollment reached a new high in the fall of 1935 with 5,265, including the 150 foresters at Mont Alto. The major problem, as President Hetzel saw it, was the lack of facilities for women students, and he urged construction of dormitory space for them. Only a few over a thousand students then were women.

Federal aid to students took the form of jobs, which at Penn State carried a maximum stipend of \$12 per month. Scholarships of one form or another from the State added \$51,800 yearly in the amount of aid students got from governments. At the time, the cost of the entire college year was

estimated at around \$700, including room and board.

A major event among the students in 1935 was the "Strike" which was a nationwide peace demonstration. On campus, students were allowed to cut class for one hour, to hear talks and, as it turned out, to pass two resolutions: to abolish compulsory ROTC, and to urge the United States to spend less money on armament and more on education.

In the academic year 1934-35, including summer session, 960 bachelor's degrees were conferred and 194 advanced degrees. By the end of Summer Session, 1960, this year will have seen 1188 advanced degrees conferred, 2620 bachelor's, and 467 associate. Through 1935, the number of degrees conferred by Penn State had not yet reached 25,000; today it is well over 75,000.

Student activities 25 years ago were not unlike those today. They elected the "Best Dressed Professor," who turned out to be Dr. E. J. Nichols, now professor of English. In 1960, the students elected "Professor Snarf."

Extra curricular activities have apparently changed little, except that more students are participating. Dances, athletics, politics, music and theatrics, religion, and other subjects commanded attention then as now. The problem hasn't arisen since, but in 1935 the Senate Committee on Athletics was required to pass on the eligibility of coed Dorothy Anderson to compete on the varsity tennis team. Action was in her favor.

Among the honors won that year by students were: Eastern boxing team title, with three intercollegiate champions; Howard Johnston won the National 165-pound wrestling title (first Easterner to do so); and the Glee Club won the Eastern Championship held in Pittsburgh.

Admission of students in 1935 was based on high school rank; those in the upper two-fifths of their high school class were admitted without examination and those in the lower three-fifths were required to take a college aptitude exam. However, Registrar William S. Hoffman had developed a system of rating high schools so that students from lower fifths were required to take an exam even though they finished in the upper 40 per cent of their class.

There was a significant difference in the admission picture between 1935 and 1960. President Hetzel reported to the Board of Trustees that "the bulk of applications are not submitted until after the high schools close."

But still, there were more than Penn State could open its doors to and some were turned away.

Fellowships

The Graduate School Office wishes to call the attention of the faculty to the National Science Foundation Fellowships for study and/or research which are available to them in the following areas: mathematical, physical, medical, biological, engineering and other sciences, including anthropology, psychology (excluding clinical psychology), geography, certain interdisciplinary fields and areas of convergence between the natural and social sciences. Interdisciplinary fields are such fields as: biochemistry, biophysics, geochemistry, statistics, and statistical design, and oceanography.

Postdoctoral Fellowships

Application Deadline - Sept. 6, 1960

These fellowships are available to young scientists who as of October 1, will have earned the doctorate or have had research training equivalent to it, and who have demonstrated ability and special aptitude for advanced training in the sciences. Approximately 35 of these fellowships will be awarded October 17, 1960 for full time scientific study and/or research at the postdoctoral level for tenure periods of from six months to two years, to begin within one year of the announcement of the award.

The annual stipend is \$4500 plus an allowance of \$500 for each dependent, with a limited cost of travel and research expense allowance. Office cards to use in obtaining application materials are available at the Graduate School Office, 104 Willard. These office cards must be filled out and submitted to The Fellowship Office, National Academy of Sciences - National Research Council, Washington 25, D. C., in order to obtain application materials. ACT AT ONCE IF INTERESTED

Science Faculty Fellowships

Application Deadline - Oct. 10, 1960

The National Science Foundation will award nationally on December 12, 1960, approximately 300 Science Faculty Fellowships to individuals to improve their competence as college or university teachers of science, mathematics, and engineering. Awards will be made to two groups of individuals separately: (1) those holding a Ph.D. in science and mathematics; and (2) those not holding a Ph.D. degree. The latter category makes college instructors eligible who have not obtained their doctorate and are interested in continuing in college teaching. Applicants may request tenure of from three to fifteen months. Of special interest is that the award may be requested in units of three successive summers instead of over a continuous period.

Eligibility requirements include a baccalaureate

degree and three years of college or university teaching experience on a full time basis with the rank of instructor or higher, teaching mainly undergraduate students. Science Faculty Fellows will be selected on their potential and demonstrated ability as teachers of science.

Stipends will be adjusted to approximate the same income as that derived from the normal salary of the recipient, but are reduced by the amount of other fellowship or sabbatical leave salary received. A travel allowance and an additional allowance for special needs are also available.

Applicants must submit an individual plan of study and/or research carefully designed as a mechanism for increasing the competence of the applicant as a teacher. Applicants may propose several activities in their plan such as: advanced course work, research, independent study, extensive consultations with successful teachers and so forth.

Application materials may be obtained from the Graduate School Office, 104 Willard Building or from the Division of Scientific Personnel and Education, National Science Foundation, Washington 25, D. C. Completed application materials must be received by the Foundation not later than October 10, 1960. A bulletin at the Graduate School Office, 104 Willard Building, gives further details.

Senior Postdoctoral Fellowships

Application Deadline - Oct. 10, 1960

The National Science Foundation plans to award December 12, 1960 approximately 75 Senior Postdoctoral Fellowships to scientists five years or more past the doctoral degree at the time application is made, and who, relative to age, experience, and opportunities have received recognized stature in their fields. The applicant must present a plan for study and/or research with a view to increasing his competence in some specialized field of science, or in broadening his competence in related fields of science. These fellowships are not thought of as merely providing support for research projects as such.

Stipends are computed individually on a salary matching principle, but are reduced by the amount of other fellowship or sabbatical leave pay received during the same time. A travel allowance and an additional allowance for special needs are also normally available. The National Science Award will be adjusted so that the combined support from the Foundation and other sources will not exceed \$12,000.00 per year plus special allowances for travel and other needs. Tenure may begin any time within one year after date of award.

Application materials may be obtained from the Graduate School Office, 104 Willard Building, or from the Foundation, Washington 25, D. C. Completed materials must be received by the Foundation not later than October 10, 1960. A bulletin at the Graduate School Office gives further details.

Personnel —

(Continued from page one)

Dr. Henry W. Johnstone, Jr., associate professor of philosophy, will lecture and conduct seminars in philosophy at Trinity College, Dublin, Ireland, while on leave from July 1 to June 30, 1961. He has received a Fulbright award for the purpose.

Lucille I. Magnusson, assistant professor of physical education at the State University of Iowa, has been named associate professor of physical education. A graduate of the University of Illinois, she received master of arts and doctor of philosophy degrees from Iowa State. She has taught at Beloit College, in the public schools of Austin, Minn., and at Iowa State.

John M. Shemick has been named associate professor of industrial education. He comes from the State University of New York at Oswego, where he was associate professor of industrial arts education. He has also taught at Midland, Mich., schools and at the University of Illinois and Florida State University.

Raymond O. Murphy has been named assistant dean of men, to direct the residence hall counselling program for men. He replaces Dr. William B. Crafts, who is now at the University of Pittsburgh. Murphy is a California State College graduate and has received his master of education degree from Penn State. He has been counselor coordinator at the University.

Millard T. Bunnell, assistant registrar, has been named assistant dean of admissions. He will be charged with the admission of undergraduate students coming to Penn State from other colleges and universities.

faculty BULLETIN

Vol. 48, No. 6

Aug. 12, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Personnel matters

Frederick Wilse Bateson, since 1946 university lecturer in English literature at Corpus Christie College, Cambridge University, England, will be distinguished visiting professor of English beginning Sept. 1. An Oxford graduate, where he received bachelor of letters and master of arts degrees, he was visiting professor of English at Cornell University in 1955 and at the University of California in 1958. His research has been in literary history.

Oscar Gutierrez-De Pineres, instructor in engineering mechanics, has resigned to accept a position on the faculty of Ohio Northern University, where he will also work toward his doctorate in civil engineering.

Lester P. Nichols, associate professor of plant pathology, will be on leave from May 1 to Oct. 31, 1961 to visit nurseries, greenhouses and arboretums in the Northeastern states, to obtain information on the resistance of flower and nursery crops to various fungus and pathogens.

Frank S. Neusbaum, professor of theatre arts, has been granted a two-year leave of absence, beginning Sept. 1, to supervise the establishment of an educational motion picture production unit at the University of Sao Paulo, Brazil. He will work under a program of Michigan State University, which is directing the building of a full-scale Audio-Visual Center at the University. The educational motion picture unit will be the first in any Brazilian university.

NEWS IN BRIEF

► **ADDRESS:** Earl J. McGrath, former U. S. Commissioner of Education and now executive officer of the Institute of Higher Education, Teachers College, Columbia University, will deliver the keynote address for the annual convention of the Association for Education in Journalism to be held here Aug. 29 to Sept. 2.

He will speak on "Preparation for Journalism: Education or Training."

Other speakers in the week-long meeting will include author Martin Mayer and Herbert Brucker, president of the American Council on Education for Journalism.

► **NAMES:** Fourteen more counties will attach their names to University living units this fall in the Pollock Residence Halls on East Campus.

Mercer County will be the first honored. Dedicatory ceremonies will be held on Sept. 20. Last fall sixteen counties were similarly honored in units in North Halls.

► **SCHOLARSHIP:** The Class of 1962 has established an award which will go to one of its own members to help further his education.

The award of \$100 will go each year to a student in need who has attained at least a 2.5 All-University average. Students who have received any other University scholarships during the year will not be eligible. A different student will be selected each year.

Set up as a class project, the award is unique at Penn State. It will be financed by student government funds allotted to the 1962 Class for special projects.

► **MATEER:** William Gibson's Broadway play, "Two for the Seesaw," will be the concluding production of the summer season at Mateer Playhouse. It will run Aug. 22 to 27. Curtain time is at 8:40 p.m. at the Playhouse, which is located at Neff's Mills.

► **ART:** An exhibition of Ecuadorian school art is now on display in the card room of the Hetzel Union Building and will remain until Sept. 1.

Arranged by participants in the Latin American Education project, the exhibit is designed to commemorate Ecuadorian Independence Day, which was Aug. 10.

Religious themes and the everyday life of the Ecuadorian rural population are depicted in the bright temperas, which were done by girls attending the Colegio Nacional Secundary School.

► **HONORS:** Seven students were graduated with honors, six with high distinction, at Commencement exercises on Aug. 12. A four-year average of 3.60 to 3.79 is required for high distinction recognition and 3.40 to 3.59 for distinction.

The group included two students in pre-veterinary and one each in agricultural education, secondary education, elementary and kindergarten education, arts and letters, and electrical engineering.

► **CONFERENCES:** The coming week will again be a busy one for the University Park campus, with a variety of conferences and meetings scheduled.

Largest of the groups to meet is the Rainbow Girls, with about 3,500 scheduled to attend the grand assembly Wednesday through Friday.

Today the Seventh Annual Folk and Square Dance Festival, attracting some 400 people, will begin its two-day session and tomorrow the Pennsylvania Beekeepers Association will meet. Other groups to meet between now and next Friday are the Accounting Study Conference, the Communication Workers of America, the Northeast Agricultural Experiment Stations Directors, the Pennsylvania Nurserymen's Association, and the Rural Sociology Society.

► **GIFT:** Dr. Hugo Weisgall, noted musical composer and conductor who served as distinguished visiting professor of music last year, has presented a printed copy of the piano-vocal score of one of his works, to be added to the Rare Book Collection in Pattee Library.

The work is a one-act opera, titled "Purgatory," written in 1958 to the poem by William Butler Yeats. The 53-page copy, with the composer's corrections hand-marked on the pages, was sent to Ralph W. McComb, University librarian, as a memento of Dr. Weisgall's stay on campus. The work was published by Independent Music Publishers, New York.

Many of Dr. Weisgall's original manuscripts are now in the Library of Congress.

► **AGRICULTURE:** An illustrated lecture on South African agriculture will be given by Dr. Thomas P. Bogyo, chief of agronomy research, Province of Natal, Union of South Africa, on Friday, Aug. 26 at 4 p.m. in Room 112, Buckhout Laboratory.

Dr. Bogyo is currently touring corn breeding centers in the United States.

Items of interest

Art

ZOLLER, E. W., FROST, S. H., art, and CHI, CHEN and PITTMAN, HOBSON, visiting in art, paintings in the 25th annual Midyear Show at the Butler Institute of American Art, Youngstown, Ohio.

Articles and Papers

ALBRIGHT, G. H., a paper, "The Architect and Architectural Engineer in the Nuclear Age," in the Feb. 1 issue of Journal of Engineering Education.

COOK, F. H., business law, an article, "Future Demand and Plant Adequacy in the Electric Industry," in the Aug. 4 issue of Public Utilities Fortnightly.

DODDS, MARY L., foods and nutrition, an article in the July issue of the Journal of Nutrition, "The Cariogenic Property of Cereal Foods," which reports on studies on wheat, corn, rice, and oats and their effects on albino rats.

HOWELL, B. F., geophysics, a paper on "Absorption of Seismic Waves in Rock," before the International Association of Seismology and Physics of the Earth's Interior at the 12th Triennial Assembly of the International Union of Geodesy and Geophysics at Helsinki, Finland.

HUSSMAN, A. W., engineering research, with G. W. MAYBACH, a paper on "The Film Vaporization Combustor" presented at the Summer Meeting of the Automotive Engineers Society, June 5-10 in Chicago.

JACKSON, D. N., JR., psychology, an article on "Stylistic Response Determinants in the California Psychological Inventory," in the current issue of Educational and Psychological Measurement.

JACKSON, L. E., Agriculture, a paper on the future of colleges of agriculture in university education at a meeting of the section of Deans of Resident Instruction of the American Association of Land Grant Colleges and State Universities.

JACOBSON, A. H., Engineering and Architecture, an article in the May issue of The Pennsylvania Professional Engineer, on "Engineering Education at The Pennsylvania State University."

MARKHAM, J. W., journalism, an article, "Objective Coverage of Campaigns," in the July, 1960 issue of Nieman Reports, published by the Nieman Alumni Council of Harvard University.

MORSE, J. M., English composition, a paper, "The Mephistophelian Style of James Joyce," at the eighth annual congress of the International Federation for Modern Languages and Literatures, Aug. 28 to Sept. 4, at Liege, Belgium.

MUELLER, E. W., physics, a paper titled "The Observation of Radiation Damage with the Field Ion Microscope" at the Fourth International Symposium on the Reactivity of Solids, in Amsterdam, Holland. Also a lecture at the Technical University, Darmstadt, West Germany.

PIKE, RUTH L., foods and nutrition, co-author of a paper, "Blood Volume and Serum Protein in the Deoxypridoxine-Fed Rat During Pregnancy," in the June issue of the Journal of Nutrition.

SLABEY, R. M., English, articles in the 1960 vol. of Texas Studies in Literature and Language, "Myth and Ritual in the Novel"; in the summer issue of Phylon, "Faulkner's Marginal Man"; and in the June issue of Notes and Queries, "'Art Poetical' in The King's Quair."

TORKELSON, G. M., education, an article on "Audio-Visual Materials and the Principles of Learning," in the publication, "Child Guidance in Christian Living."

WEAVER, P. C., Summer Sessions, a paper on "Summer Sessions Calendar" at 75th meeting of Deans and Directors of Summer Sessions.

WILLIAMSON, M. A., Engineering and Architecture, a paper on "The Organization and Operation of Research and Development" at the 11th annual Industrial Research Conference at Arden House, Columbia University, Aug. 10.

WILLOWER, D. J., Educational Services, a paper on "Knowledge, Behavior and the Case Method" at a conference sponsored by the Kellogg Foundation and the University of Oregon, Aug. 12, on the theme, "Preparation Programs in Educational Administration — A Forward Look."

Books

ALFKE, DOROTHY E., elementary education, co-compiler of "A Teacher's Guide for Earth and Space Science."

DALBOR, JOHN B., Romance languages, co-editor of a reader for college-level Spanish, "Imaginacion y fantasia, Cuentos de las Americas," published by Holt, Rinehart, and Winston.

DAVIDS, N. C., engineering mechanics, editor of the proceedings of the 1959 International Symposium on Stress Wave Propagation, published by Interscience Publishers.

WORKMASTER, W. F., Pennsylvania Historical Collections, and IVERSEN, R. W., Continuing Education, a study manual, "Everyone His Own Historian: A Guide for Studying the History Around You." Published by the Center for Continuing Liberal Education for an adult education course.

Elected or Appointed

ALBRIGHT, G. H., architectural engineering, appointed to the Committee on Higher Education and Civil Defense of the American Council on Education.

— elected vice-president of the Architectural Engineering Division of the American Society for Engineering Education.

DICKERSON, R. B., Agriculture, named national program chairman for the 1961 Measurement and Evaluation Conference of Deans of Resident Instruction in Agriculture.

FLETCHER, P. W., forestry, elected a member of the Board of Directors of the Pennsylvania Forestry Association.

MARKHAM, J. W., journalism, elected national secretary of Kappa Tau Alpha, for third successive two-year term.

MCCOMB, R. W., Librarian, elected chairman of the University Library Section of the Association of College Research Libraries.

TAYLOR, B. P., Penn State Foundation, elected to a three-year term as director-at-large, Development Division, American College Public Relations Association.

WARNE, ALICE E., Bureau of Business Research, named to the program committee, 1961 Interstate Conference on Labor Statistics.

faculty BULLETIN

Vol. 48, No. 7

Aug. 19, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Reactor gift

THE nuclear reactor, hot cells, and auxiliary facilities of the Curtiss-Wright Corp. Research Center at Quehanna, Pa., have been acquired by the University, a gift of the company.

Announcement of the gift was made by Curtiss-Wright on Aug. 20 as one of three steps in the company's plans to amplify and reorient its research activities to embrace closer cooperation with the University in basic research and education.

The reactor at Quehanna is rated at four megawatts, having considerably more power than the University's present reactor, which has only recently been doubled in power to 200 kilowatts. The University Park facility will take on even greater usefulness through the additional facilities for which the General State Authority has already allocated funds. Research projects which can be carried on here, however, are limited by the power of the reactor. The Quehanna reactor, it is explained, will now provide additional opportunities for research.

"This acquisition," says President Walker, "will give the University the best nuclear laboratory in the East."

It is the intention of the Curtiss-Wright Corp. to convert Quehanna into a center of technology in which the development of a community of interest with the University will be an essential element.

The reactor at Quehanna is a swimming pool type, as is the campus facility. Also available are hot cells which provide safe handling of up to 10 million curies of gamma radiation.

Benefits total over \$5.5 million

UNIVERSITY faculty and staff members and their beneficiaries have been paid a total of nearly \$5.5 million in life insurance and hospital and medical expenses since these programs were inaugurated over a 30-year span. The data was supplied by the Equitable Life Assurance Society of the United States, which has been the insurance carrier for this period.

The Life Insurance program had its beginnings in 1929 when the Agricultural and Home Economics Extension Workers Association of Pennsylvania signed a contract with the Equitable. In 1932, other University faculty and staff members voted to adopt this plan, which carries disability as well as death benefits. Seventy-five per cent of the eligible employees were required to accept the plan before it went into effect.

Over the period of 31 years, nearly \$3 million has been paid out in death and disability claims.

In April, 1939, the Hospital-Surgical Expense Plan went into effect, also after a vote of eligible full-time employees. Dependents were not included in the original provisions. For a flat \$1.11 per month premium, the insurance allowed \$4 per day up to 70 days of hospitalization, \$20 for additional charges, and up to \$150 for surgical fees. From time-to-time these provisions have been altered. The original plan was worked out and sponsored by the local chapter of the American Association of University Professors. The University agreed to be responsible for the administration

of the plan and to make payroll deductions for the premiums.

The 1939 Hospital-Surgical plan required the employee to pay the entire cost and, in addition, was limited in its coverage. In 1948, employees voted on a new plan which would cover themselves and wife and children and for which the University would pay a share of the cost. This is the plan now in effect, with certain modifications as to coverage.

Major Medical Expense Insurance is the latest program developed for employees, going into effect on May 1, 1960. Again it was necessary for eligible employees to vote on the coverage. Since the program is so new and since Major Medical is a plan which takes up where Hospital-Surgical leaves off, payments have been limited so far. University records indicate that from May 1 to Aug. 5, a total of \$4,616.36 was paid out.

A complete summary of payments under the various plans is provided by Equitable:

Plan	Claims (to July 1, 1960)
Life Insurance	
Effective 4-15-29	\$2,880,987.50
Employee Hospital	
Effective 4-1-39	924,417.22
Employee Surgical	
Effective 4-1-39	306,666.02
Dependent Hospital	
Effective 11-1-48	\$860,371.35
Dependent Surgical	
Effective 11-1-48	354,678.79
Total (not including major medical)	\$5,327,124.88

NEWS IN BRIEF

► **RETIREES:** Retired University faculty and staff members have been made eligible for Major Medical Expense Insurance. The insurance provides a supplement to the Hospital-Surgical Insurance program by paying a percentage of the expenses resulting from serious accidental bodily injuries and sicknesses such as polio, tuberculosis, cancer, heart disease, etc.

Essential provisions of the plan, which is similar to that enjoyed by University employees, are (1) payment of 75% of allowable expenses after a deduction of \$200; (2) benefits paid up to a total of \$5,000; (3) coverage of dependents.

Monthly costs of the plan to retirees are: (1) for retiree only, \$2.95; (2) for retiree and wife, retiree and children, or retiree, wife and children, \$5.90.

Retirees who are members of the Hospital-Surgical Plan are eligible. Their applications must be received by Aug. 31.

► **SCHOLARSHIP:** The Class of 1961 has provided funds to aid a student in a program of study abroad.

The student is Michael L. Winters, junior in journalism, who will spend his junior year studying at the International Christian University in Tokyo, Japan.

Under regulations passed by the University Senate last June, students with a 2.50 average or better may be granted leave status to spend his junior year abroad in study at an approved institution, after approval of

(Continued on page two)

Items of interest

Honors and Awards

THOMAS, C. AUBREY, Kennett Square Research Center, proclaimed "Mr. Mushroom of 1960" and granted the golden mushroom of the American Mushroom Institute.

Lectures and Talks

ALBRIGHT, G. H., a talk, "The Shelter Research and Study Program at The Pennsylvania State University," before the National Academy of Sciences — National Research Council Advisory Committee on Civil Defense in June.

— a talk "Architectural Engineering Research at The Pennsylvania State University" at the Spring Conference of the Building Research Institute, N. Y.

BRADLEY, J. F., finance, a talk before the Pennsylvania Realtors Association, on "The Trend Toward Professionalization."

TAYLOR, B. P., Penn State Foundation, a talk on "More Basic Approaches to Alumni," at the Meeting of the American Alumni Council in Washington, D. C.

Elected or Appointed

ALBRIGHT, G. H., architectural engineering, elected vice-chairman of the Architectural Engineering Division, American Society for Engineering Education.

Articles and Papers

NEUBERGER, HANS, meteorology, a poem, "Wenn Immer," in the American-German Review, August-September issue.

PIKE, RUTH L., foods and nutrition, a paper on "The Effect of Restriction and Excess of Dietary Sodium upon Maternal and Fetal Tissues and Fluids in the Rat," at the Fifth International Congress on Nutrition, Sept. 1-7.

REEVES, T. M., Audio-Visual Aids Library, and TORKELSON, G. M., education, an article, "Self Instruction in Audio-Visual Education: A Title VIII Progress Report," to Audio-Visual Communications.

WISLICIENUS, G. F., Water Tunnel, a paper on the problems of teaching fluid mechanics at a Conference on Methods of Teaching Fluid Mechanics in the Engineering Sciences, at Wernersville, Pa., Sept. 6-9.

News —

(Continued from page one)

his program by the Admissions Office and the Dean of the student's College.

The \$200 Class of 1961 Scholarship which will aid Winters is financed through student government funds designated for special projects to encourage interested and qualified students to take advantage of the opportunity to study abroad. It is hoped that succeeding classes will continue the scholarship plan.

➤ **ENCYCLOPEDIA:** Contributors among faculty members to the McGraw-Hill Encyclopedia of Science and Technology which will be published in 15 volumes include the following:

Brindley, George W., professor of solid state technology, on apophyllite and talc.

Dachille, Frank, research associate in geochemistry, high pressure phenomena.

Davis, David E., professor of zoology, on ecologic interactions.

Frear, Donald E. H., professor of agricultural and biological chemistry, on fumigants.

Howell, Benjamin F., Jr., professor of geophysics, on earth and, with Dr. Joseph Kaplan, University of California, on geophysics.

Manning, Kenneth V., associate professor of physics, on induction and electromagnetism.

Mueller, Erwin W., research professor of physics, on the field emission microscope.

Roy, Rustum, professor of geochemistry, on high pressure phenomena.

Spackman, William, Jr., director, Coal Research Section, on coal paleobotany.

Sprague, Howard B., professor of agronomy, on grass.

Wartik, Thomas, professor and head of the department of chemistry, on boron.

Wislicenus, George F., professor of aeronautical engineering and director of the Water Tunnel, about which he writes.

➤ **ENROLLMENT:** Complete enrollment figures are now available for all five 1960 Summer Sessions. They indicate a University Park campus enrollment of 8,677, above that of last year. There is a decrease in enrollment for the centers and other campuses however. A complete summary showing these enrollments will be given in a future issue.

The summary for University Park:

	Men	Women	Total
Inter-session			
Graduate	746	394	1140
Undergraduate	670	97	767
Unclassified	38	277	315
Total	1454	768	2222
Mid-Session			
Graduate	1348	723	2071
Undergraduate	130	100	230
Unclassified	136	223	359
Total	1614	1046	2660
Post-Session			
Graduate	484	133	617
Undergraduate	252	42	294
Unclassified	25	36	61
Total	761	211	972
First 6-Weeks			
Graduate	472	43	515
Undergraduate	672	183	855
Unclassified	78	46	124
Total	1222	272	1494
Second 6-Weeks			
Graduate	462	35	497
Undergraduate	598	112	710
Unclassified	84	38	122
Total	1144	185	1329
Grand Total	6195	2482	8677

➤ **FORESTRY:** Of the 61 students who received degrees in forestry in June, 26, or 42.6 per cent are now working with governmental agencies. Of the others, 12 are with forest industries, eight have entered graduate schools, six the Armed Services, and two the teaching profession.

faculty BULLETIN

Vol. 48, No. 8

Aug. 26, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Toward new level

It should be easy for the American economy to reach a new high point early next year, believes Dr. David H. McKinley, associate dean of the College of Business Administration.



Speaking before the Sixth Annual Accounting Study Conference on campus on August 21, Dean McKinley dealt in part with the theoretical aspects of a forecast of business, showing relationships between gross national product

(GNP), national income, personal income, and other "macro-measurements."

Six highly sensitive segments of GNP were studied for indications of the future, including:

1. National Defense purchases, which are at an annual rate of \$44.6 billion. These will increase by two to five billion dollars next year because of the speedup of the ballistic missile program.

2. Private capital expenditures, which are at a \$48.4 billion rate. Research and development needs, replacement of obsolescent plant capacity, etc., are driving expenditures to all-time high levels. In 1960, it was the main item sustaining business and, says Dean McKinley, until it turns downward sharply, there can be no important recession in U. S. business.

3. Private residential construction,

(Continued on page two)

NEWS IN BRIEF

Promotions listed

Promotions of 35 members of the faculty were announced this week, most effective July 1.

To the rank of assistant professor — Benton K. Bristol, agricultural education; Richard A. Gotshalk, philosophy; Richard D. Guild, industrial engineering; George J. Hasslacher, III, engineering mechanics (effective Sept. 1); Rigoberto Juarez-Paz, philosophy.

David Kerner, English; Elizabeth L. Nutter, zoology and entomology; Patricia M. Overdeer, mathematics; William N. Park, mechanical engineering; Joseph R. Reed, civil engineering; Peter L. Roeder, geophysics and geochemistry; Charles Steinberg, labor education; and Donald C. Trendennick, general engineering.

To the rank of associate professor — Richard S. Adams, agricultural extension; Donald W. Bleznick, Romance languages; James H. Copp, agricultural economics and rural sociology; Carl C. Faith, mathematics; Harold S. Fox, agricultural extension; John A. Fox, aeronautical engineering (effective Sept. 1); Helmut J. Goltz, labor education.

Lionel Goodman, chemistry; Truman V. Hershberger, animal nutrition; Richard N. Jorgenson, forestry; Benjamin A. Lane, English; John Leask Lumley, Ordnance Research Laboratory; Mary Lister McCammon, mathematics; T. King McCubbin, Jr., physics.

James E. Mettler, mathematics; George Pappas, art and art education; Samuel Leonard Rubenstein, English; Martin W. Schein, poultry husbandry; Gordon Ross Smith, English; Lawrence W. Specht, agricultural extension; Henry Tracy Sturcken, Romance languages; and Robert L. Swope, veterinary science.

► **LUNCHEON:** The Faculty Luncheon Club will resume operations on Monday, Sept. 19 at 12 noon in dining room "A", of the Hetzel Union Building. Speaker on that occasion will be Chauncey P. Lang, professor emeritus of agricultural extension.

Lang, who was State 4-H Club Leader for many years, will describe, with slide illustrations, many of the facets of "The First World Agricultural Fair," which was held at New Delhi, India, and which he attended as head of the 4-H group at the Fair.

► **LION'S DEN:** The department of food service has announced that the Lion's Den cafeteria will close on Friday, Sept. 2 at 2 p.m. and reopen on Sunday, Sept. 11 at 8:15 a.m.

► **PARKING:** New parking stickers and regulations were given to personnel representatives of the various departments and colleges this week and the process of distributing them to car owners has begun.

The department of personnel services, which has been distributing the stickers, points out especially that the new stickers are to be attached to the front and rear bumpers of the car, in plain view. Cars having no bumper should place the sticker in such an area of the car, except on windows, that the sticker can be plainly seen by a person approaching from the rear or from the front.

The stickers, it is explained, must not be moistened to attach them, but must be applied dry, after removing the protective paper backing.

► **HEARING:** Persons who have been tested in the current hearing survey being conducted by the Human Factors Research Program staff and to whom the recommendation has been made to seek medical consultation were advised this week to visit a doctor or specialist of their choice before taking further steps to correct their hearing deficiencies.

Dr. John F. Corso, professor of psychology and director of the program, points out that the survey is in no way connected with any organization advertising or selling hearing aids. He urged those who might need help to get further assistance from a trained person, preferably an otologist.

It is unfortunate but true, Dr. Corso added, that certain types of hearing disorders cannot be corrected by hearing aids and must be treated by surgical or other techniques.

► **TOUR:** Dr. Walter H. Walters, head of the department of theatre arts, will make a tour of West Germany and West Berlin at the invitation of the German Federal Government. The tour will be made from Sept. 4 to Oct. 3.

Purpose of the tour, which is made under the Government's "Guest Program," is to help foreign visitors inform themselves personally of the general conditions in West Germany and West Berlin, by meeting and talking with leading personalities in the public, political and cultural life.

In the same group with Dr. Walters will be others in the theatre arts field as well as a Columbia Broadcasting System newswriter.

The tour is part of an exchange program with the U. S., and was inaugurated in 1952.

Personnel matters

Dr. George B. Vold, noted for his research in the field of predictability of human behavior in crime and a member of the faculty of the University of Minnesota for the past 33 years, has been named distinguished visiting professor of sociology and anthropology for the fall semester. A graduate of the South Dakota State College, with master of arts degree from the University of Chicago and doctor of philosophy from the University of Minnesota, Dr. Vold has also taught at Macalester College.

Other recent appointments to the faculty include:

Agriculture

Chab, Donald E., instructor in agricultural and biological chemistry.

Goss, Glenn W., associate professor of agricultural extension.

Snetsinger, Robert J., assistant professor of entomology.

Business Administration

Twark, Allan J., assistant director, Bureau of Business Research.

Chemistry and Physics

Cutler, Paul H., assistant professor of physics.

Hisatsune, Isamu C., assistant professor of chemistry.

Knausenberger, Martin, visiting research assistant in chemistry.

Education

Potts, James L., Jr., assistant professor, secondary education.

Engineering and Architecture

Astle, Neil L., instructor in architecture.

Balazs, Gabriel G., Jr., instructor in electrical engineering.

Beans, E. William, instructor in aeronautical engineering.

Dornecker, John A., instructor in electrical engineering.

Farwell, Robert W., assistant professor of engineering research.

Foderaro, Anthony H., associate professor of nuclear engineering.

Hull, Frederick H., assistant professor of engineering mechanics.

Steele, Stuart A., instructor in electrical engineering.

Vijuk, Robert M., research assistant in mechanical engineering.

Liberal Arts

Burt, Jane A., instructor in English.

Chiu, Ping, instructor in history.

Knust, Herbert, instructor in German and comparative literature.

Reynolds, George H., instructor in theatre arts.

Slanicka, Charles J., instructor in labor education.

Mineral Industries

Confer, Daryl S., research assistant in mineral preparation.

Howe, Richard H., instructor in geology.

Larson, Leonard H., visiting research associate in geochemistry.

Physical Education

Kearns, Nancy J., instructor in physical education.

Lundegren, Herberta M., instructor in physical education.

Magnusson, Lucille I., associate professor of physical education.

Administration

Haggerty, Samuel W., assistant registrar.

Toward —

(Continued from page one)

recently at a \$21.1 billion rate. With a 17 per cent contraction in the starting of houses and a vacancy ratio in houses and apartments of 7 per cent, this part of the business world is "soft." Continued difficulties may be experienced until the industry begins to adjust to the fact that postwar inflation is largely ended. Costs may have to be brought under control and more advances made in pre-fabrication before the industry can move to new high figures.

4. Non-defense public construction. Recently at a \$14.1 billion level, this area will move up by two or three billion dollars within a year because of the urgent need for highways, schools, water systems, and sewer systems.

5. Consumer goods. Personal income is now at a peak rate of \$407 billion annually, but consumers have been selective about the purchase of durable items. Automobiles and parts are moving at close to record figures but many items of household equip-

ment are in the doldrums. As a result of disinterest in many durable goods, the consumer is for the first time in several years building up savings.

6. Business inventories. Always the most erratic factor in Gross National Product, they are now in a neutral position. Only a few months ago most business analysts were talking about an accumulation of \$3 billion over the next 12 months but now it seems doubtful that the accumulation will be even as much as \$1 billion.

Gains in the next year, Dean McKinley says in summary, will be in national defense purchases, capital expenditures for plant and equipment, public construction, and perhaps some slight increase in inventories.

Contractions will come in residential construction and purchase of durable goods.

"By way of analogy," Dean McKinley explains, "the position of U. S. business is similar to that of a mountain climbing party which has reached a very high base camp. Before it can make a new approach to the summit, it may have to slip back to a slightly lower base camp."

faculty BULLETIN

Vol. 48, No. 9

Sept. 2, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY.

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Appointments

The appointment of four members of the faculty of the College of Home Economics has been announced.

L. Gertrude Nygren has been named associate professor of home art. She has been associate professor at Washington State University since 1955 and has taught also in high schools in Iowa and at Michigan State University. She is a graduate of Iowa State, earned a master's degree at the University of Minnesota and a doctorate at Cornell University.

Joan Gordon, former associate professor at the University of Minnesota, has been appointed professor of foods and nutrition. She obtained all three degrees from the University of Minnesota, after attending Rochester Junior College. She has taught at Iowa State as well as at Minnesota.

Carlfred B. Broderick, since 1956 a member of the faculty at the University of Georgia, has been named associate professor of family relationships. A native of Utah, he obtained a bachelor of arts degree from Harvard College and doctor of philosophy degree from Cornell University. He has also taught at Cornell.

Vladimir de Lissoy, who has served as professor of child development in the State University of New York College of Education at Oswego and Oneonta, has been appointed associate professor of child development. He earned bachelor of art and master of art degrees at the University of Colorado, where he was instructor for two years before going to New York. His doctor of philosophy degree was conferred by Cornell University.

NEWS IN BRIEF

► **ORIENTATION:** About 6,000 new students, freshmen, transfers from other colleges and universities will arrive on Sunday, Sept. 11 to begin activities of Orientation Week.

Many University faculty and staff members will assist the new arrivals on Sunday to get settled and begin the process of becoming accustomed to their new surroundings. During the day, students will check into their residence halls. Sunday evening will be given over largely to mixers sponsored by Hillel Foundation or Newman Club or to visits to faculty homes sponsored by the University Christian Association.

For the balance of the week, students will attend a variety of meetings or tours, take physical examinations, speech and hearing tests, register, and get acquainted. President Walker will welcome the students on Monday, at 9 a.m., in Recreation Building.

Because of the press of arriving students, traffic on campus will be heavy. Persons who do not need to be on campus during the day on Sunday are urged to remain away to speed the process of getting students settled.

► **MEETING:** The College of Agriculture will be host to members of the Pennsylvania Farm Bureau Cooperative Association on Monday and Tuesday, Sept. 12-13. Theme of the meeting is "The Scientific Sixties in Pennsylvania Agriculture." Talks will be given by Lyman E. Jackson, dean of the College, and by President Eric A. Walker. A visit to the new agronomy research farm at Old Fort will be included in the program.

► **ADVISORS:** Attention of faculty advisors is called to the fact that with each registration kit will be found a blue Class Gift card. The card has been provided to give every student an opportunity to contribute \$1.00 at each fall registration to his class gift, which is presented to the University just prior to graduation.

Last fall was the first occasion for collecting money at registration, although class gifts are a tradition at Penn State. A total of \$7,250 was collected. Sponsors of the program solicit the interest of the faculty advisors in bringing the program to the attention of their advisees.

► **LANGUAGE:** The next written foreign language examination will be given to graduate students on Nov. 7. Oral tests given preliminary to the written exam have been scheduled for Sept. 14, 15, and 16. Students who

have not taken oral tests should arrange for German tests at Room 227 Sparks and for French or Spanish at Room 300 Sparks.

Those who have previously passed the preliminary oral test but failed the written exam should register for the Nov. 7 exam not later than Sept. 30, in Room 227 Sparks for German, 247 Sparks for English, and 300 Sparks for French and Spanish.

► **NSF AID:** Penn State is benefitting from the National Science Foundation's new program of support for expanding graduate research facilities. Grants totalling \$24,000 have been received to provide additional facilities in virology and tissue culture, chemical engineering and petroleum refining, and nutrition.

Under terms of the grants, funds are matched equally by the University and used for basic facilities rather than specific projects.

► **SENATE:** The first meeting of the University Senate will be held on Oct. 6. Material to be included in the agenda for this meeting should be in the office of the secretary no later than Monday, Sept. 19, for distribution on Sept. 22.

► **REHABILITATION:** Penn State will have one of the largest programs in the country in the field of Rehabilitation Counseling as a result of the grant of \$74,851 made by the U. S. Office of Vocational Rehabilitation of the Department of Health, Education, and Welfare.

Under the program, 36 traineeships will be established to aid qualified graduate students working toward a master of education or master of science degree in two-year programs in the field. The grant is \$15,000 above that of last year. Over 30 universities offer similar programs.

Dr. Kenneth W. Hylbert is director of the project, which began in 1955 with only three trainees.

► **MEMORIAL:** Dr. Cyrus E. French, former professor of animal nutrition and at the time of his death in January, 1960, nutrition chief of the United Nations Children's Fund, has been memorialized by the National Academy of Sciences - National Research Council.

Tribute was paid to Dr. French by the Food and Nutrition Board, "for dedication to the cause of improving the nutrition of the children of the world." He worked several years with the Board and was also consultant to the Interdepartmental Committee on Nutrition for National Defense.

Calendar plan announced

A four-term academic year which differs significantly from the conventional quarter system is being considered as one answer to the University's problem of better serving the Commonwealth during the critical years ahead in higher education.

The new plan, which has been under study by administrative officers the past few months, contemplates four terms of ten weeks each beginning in late September and ending in late August. Under the plan, the typical academic day would be divided into six class periods of 75 minutes each, instead of eight periods of 50 minutes as at present. A three-credit course would meet three times per week, as is the case now, for a total of 225 minutes per week, or 2250 minutes for the entire term. (The conventional semester plan now in operation at the University also requires 2250 minutes of class meeting.)

Classes would begin at 8 a.m. and continue until 5:10 p.m., with 20-minute intervals between classes. Special arrangements for night classes could be made, if necessary, as is done now.

This four-term calendar is a modification of what is traditionally called the quarter system. The present academic year consisting of two semesters of 15 weeks each would be divided under the new plan into three terms of ten weeks each. What has in the past been called the Summer Sessions would now become a fourth term of ten weeks. Special arrange-

ments would continue to be made for graduate courses offered during the summer for elementary and secondary school teachers working toward advanced degrees.

The faculty members' credit load for the three-term year would be approximately the same as it is now for two semesters. All examinations under the new plan would be conducted during the regularly scheduled class periods.

"No change in credits would be necessary, curriculums lend themselves very easily to rearrangement from eight semesters to twelve terms, and teachers would simply need to reorganize their presentations into 30 rather than 45 segments for a three credit lecture-recitation type of course," said L. E. Dennis, vice president for academic affairs, in discussing the plan.

Implicit in the plan is the opportunity for students to accelerate their program and qualify for a degree in three calendar years. Students who need to interrupt their studies also could re-enter at more frequent periods, and intercollegiate athletics would be little affected.

Many faculty members would teach only three terms, others four — depending on the contractual arrangement in each individual case. The revised extra-compensation scales which became effective this year — ranging from Plan A (48 weeks) to Plan M (36 weeks) — would continue to be

operative under the new plan. "Under no circumstances," said Mr. Dennis, "will faculty members under the new calendar be requested to assume additional teaching or research responsibilities at rates of compensation below those reflected in their academic year salaries."

Mr. Dennis said that President Eric A. Walker would outline the new plan in greater detail at a special meeting of the University faculty to be convened as soon as possible after the opening of the fall semester.

No change in fee structure is anticipated, but rather the present \$480 for two semesters would be spread over three terms and tuition would cost \$160 per term. Cost per credit would remain the same as at present.

To use facilities

The new plan evolved from the University Senate's decision last spring to delegate to the administrative officers of the University the responsibility for adjusting the academic calendar so as to increase the year-round utilization of the resources of the institution. The Board of Trustees earlier had asked that such a plan be prepared by no later than October 1, 1960, for implementation in the fall of 1961.

A specimen calendar accompanying the new plan indicates that the 1961-62 Fall Term would extend from October 2 to December 12, preceded by the traditional one-week orientation-registration period and including a one-day Thanksgiving vacation; the Winter Term from January 3 to March 13; the Spring Term from March 21 to May 31, including a two-day Easter vacation; and the Summer Term from June 14 to August 23, including a one-day recess on Independence Day.

faculty BULLETIN

Vol. 48, No. 10 Sept. 9, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Orientation

ABOUT 150 new faculty members will attend an orientation program on Saturday, Sept. 24, in the ballroom of the Hetzel Union Building from 8 a.m. to noon.

This is a new program, which has been developed to inform new faculty members about the University and their position within it.

The program will include a talk by President Walker on the future of the University; by L. E. Dennis, vice-president for academic affairs; by Dr. H. K. Schilling, dean of the Graduate School; and Dr. R. G. Bernreuter, special assistant to the president. They will discuss the nature of the University, its faculty and students. A film will also be shown, followed by a colloquy on the faculty's position in the community, employment benefits, recreational and cultural opportunities, the physical facilities of the University, and faculty affairs generally.

Following the colloquy, the attendees will assemble in small groups, the purpose being to develop a series of questions which will be answered by the administrators present. The questions will be discussed before the entire group.

Invited are all new faculty members, including instructors, assistant professors, associate professors, full professors, research assistants, and research associates in the colleges, Continuing Education, and Agricultural Extension.

NEWS IN BRIEF

➤ **GRADUATION:** Twenty-three participants in the Latin American Education Project will conclude their year's work at Penn State with graduation exercises on Tuesday, Sept. 20, at 8 p.m. in the HUB Assembly Hall. These are the school administrators of many Latin American countries who have been here to learn more about the public school system in this country. Interested persons are invited to attend the ceremonies.

➤ **FACULTY:** The College of the Liberal Arts faculty will meet on Thursday, Sept. 22, at 4:15 p.m. in Room 121 Sparks.

➤ **CHILDREN:** Registration will take place on Saturday, Sept. 24, from 8 to 10 a.m. in White Hall of elementary school-age children of faculty members for a program of physical education activities.

The classes will be held on Saturday mornings under the supervision of Miss Della Durant, assistant professor. Teaching will be by women physical education majors enrolled in teaching methods courses.

Acceptance of children will be granted in order of appearance since facilities are limited. Classes will be held from Saturday, Oct. 1 to Saturday, Nov. 12. It will be assumed that all children will be of sound medical health; the University assumes no responsibility in determining this.

The weekly schedule is as follows: Grades 1-2, 10 to 10:40 a.m.; Grade 3 (rhythmical activities) 10 to 10:40 a.m.; Grades 3-4, 10:45 to 11:45 a.m.; Grades 5-6, 10:45 to 11:45 a.m.

➤ **LUNCHEON CLUB:** The first meeting of the Faculty Luncheon Club will be held on Monday, Sept. 19, at noon in dining room "A" of the Hetzel Union Building.

All members of the faculty are invited to these weekly sessions, which consist of luncheon and a half-hour talk of general interest. New faculty members are particularly urged to attend the first session.

Chauncey P. Lang, professor emeritus of agricultural extension, will describe "The First Agricultural Fair of India," which he attended as an official U. S. delegate this year.

➤ **CITED:** The University's program of naming residence hall units for counties of the State has been cited by "Public Relations News" for special attention, praising the project as a method of combatting misconceptions about the University. It was pointed out that the project was aimed at clearing up the notions that much

State money is spent on lavish residence halls and that no effort is being made to combat "bigness."

The publication is published weekly and is read by subscribers in all 50 states and 59 foreign countries.

➤ **TEA:** A College of the Liberal Arts faculty tea will be held in the Hetzel Union Building Lounge on Sunday, Oct. 9, from 3 to 5 p.m.

➤ **TRAFFIC:** Accesses to parking lots near Beaver Stadium for the first game on the new field tomorrow will be plainly marked to keep traffic moving swiftly and safely.

Signs will refer to specific lots. Red and green lots are for ticket buyers who have reserved spaces; they are closest to the field. Black areas are unreserved and are lots west of the new University drive, on both sides of Curtin Rd.

Traffic approaching town will be routed to Park Ave. and to Garner and Pugh Sts. and subsequently Curtin Rd., depending on the lot the driver wishes to reach.

➤ **MOUNTAIN:** An additional 20 acres of timberland on Mt. Nittany has been purchased by Lion's Paw, Inc., to add to the approximately 560 acres already owned by the group.

Lion's Paw is a senior honor society which each year admits senior leaders to its membership and they automatically become affiliated with the alumni organization when they graduate. The alumni group totals 555 at present.

The first purchase of land was made in 1945, prompted by a desire to preserve the original beauty of the mountain. The new purchase is the first of several contemplated by the Society and brings the holdings closer to the tree line at the foot of the mountain.

➤ **FACTS:** A wallet-size card containing facts and figures about the University is being distributed to faculty members through their mail boxes today.

Containing in digest form much significant data which might be of interest to the general public and can be used in talks or papers, the cards have been in use for a short while by many of the Continuing Education and extension members and have been found quite helpful.

Extremely cheap, additional copies of the card may be obtained at 27¢ per thousand from the office of Reed Ferguson, director of University relations, 201 Old Main. An original printing of 100,000 is dwindling rapidly.

Ag Experiment Stations

IN agricultural research there are seldom sharp and dramatic breaks-through of scientific knowledge which alter the course of food production. Mostly, changes evolve through the patient, ceaseless probings of the laboratory or field men, who this year may add to the yield of wheat a few bushels per acre with a new seed, or next year find a new chemical to fight tomato blight.

Most of these battles in Pennsylvania are fought on the University Park campus where nearly all of the resident faculty members on Ag Hill are researchers at least part of the time. Many of the skirmishes, on the other hand, can be fought only where the enemy is to be found, whether it is disease, insects, poor soil, or climate.

For that reason, Penn State now has research stations stretching from one end of the Commonwealth to the other and it calls on farmers and non-farm people alike to lend a hand in the search for knowledge.

At North East, Pa., in Erie County, and at Rector, Landisville, Arendtsville, Centre Hall, Pine Grove Mills, and Stone Valley, Penn State faculty and staff members supplement the work going on at the main campus. Until recently, also, a station was maintained at Kennett Square, in the heart of the mushroom industry, with C. Aubrey Thomas, who retired two months ago, in charge. This work has now been transferred to the main campus.

Historically the concept of off-campus research farms is nearly a hundred years old. In the 1860's experimental farms were operated in Chester and Indiana counties but with little success. Finally financial retrenchment forced their abandonment in 1887.

Over the years other farms have served purposes for short periods of time but at no other period has as much experimenting been carried out off-campus as during the present.

In 1893, the Legislature appropriated about \$2,000 to aid tobacco research in Lancaster County. For many years the work was done in conjunction with farmers in the area and for a period was discontinued altogether, but in 1939 land was leased at Landisville for a station and studies were made in cooperation with the Bureau of Plant Industry of the U.S.D.A. The 31-acre farm was purchased in 1952 but was sold in 1955 in favor of an 88-acre farm which is now the site for research not only in tobacco but also in field crops, vegetables, hay, soils, etc.

The Arendtsville station has a history dating from the first World War when fruit diseases threatened orchards in Adams County and surrounding areas. Although the work was given up at one time by the University, farmers of the area considered it so important to their welfare that they provided a permanent home on a 15-acre site. The University eventually acquired this site and an additional 70-acre orchard has since been added.

At North East, Pa., in the heart of the grape country, the station was developed from humble beginnings in a discarded poultry house in 1940. Studies of new fruits as well as the area's standby were undertaken.



• North East; Pine Grove Mills; Centre Hall.



Stone Valley, Pine Grove Mills, Centre Hall, and Rector, in Westmoreland County, are of recent development and differ from the three older stations in that most of the staff is actually stationed at University Park.

STONE Valley is a research and instructional area in Huntingdon County which has supplemented the research program of the School of Forestry since 1940 and also the instructional programs of Mineral Industries and Civil Engineering as well. On the 6300-acre tract of land forest and wildlife management studies are helping to establish Penn State as a leader in this field.

The research programs at both the Pine Grove Mills farm of 160 acres in Spruce Creek Valley and the 238-acre farm two miles from Centre Hall are managed largely by the resident staff. At Pine Grove Mills the program is horticultural, including studies of ornamental shrubs. At Centre Hall, which was purchased in 1955, the agronomy department is carrying on projects in cereal grains, corn, forage crops, and soils.

Although relatively new also, the Southwestern Field Research Laboratory at Rector, near Ligonier, is especially interesting because it demonstrates the intense interest of farmers in research. The land was leased to the University and the program is largely financed by the farmers and civic leaders in the 11-county area served by the Station, and a committee of area farmers advises on crop and farm practice problems to be studied. The program stresses hay and grass crops, since beef cattle, dairy cows, and sheep dominate the agricultural picture in the area. Studies in vegetables and fruits have also been undertaken.

At all stations the experimental work serves a dual purpose, in that farmers of the area come to the station for a first-hand look at the results being obtained and to consult with station personnel. At North East, Harold K. Fleming, professor of pomology, and James A. Cox, professor of economic entomology, are in constant touch with fruit growers. At Landisville, Beckford F. Coon, professor of economic entomology now at University Park, was for a number of years the source of help for

(Continued on page four)



● Rector; Arendtsville; Landisville.

Senate Minutes

Annual Reports of Committees

Educational Policy

The Educational Policy Committee met 29 times during the period October 1, 1959 to May 31, 1960. Each meeting was of two hours duration. One sub-committee on "Improvement of Instruction" was continued from the previous year. The sub-committee on "Evaluation of TV" was discharged.

The following items of policy were considered together with the disposition made.

A. *Required courses in physical education.* A policy report recommending that all students be required to take a basic physical education program (Faculty Bulletin 11/20/59) was adopted by the Senate on Nov. 5, 1959. A recommendation that credit be given for required courses in physical education was referred back to committees (See item C).

B. *Improvement of Instruction.* An informational report pertaining to the study made by the sub-committee was presented to the Senate on January 7, 1960.

C. *Grades for courses in required physical education.* The EPC reported agreement with the existing policy that credit and grades be given for all courses adopted by the Senate including required courses in physical education. (Senate meeting 1/7/60, Faculty Bulletin 1/22/60).

D. *Report on "800" courses.* The previous policy statement regarding "800" courses

was re-affirmed by the EPC and by the Senate on February 11, 1960. See Faculty Bulletin 2/26/60.

E. *Enrichment or accelerating the education of superior high school students.* A report was presented to the Senate on February 11, 1960 recommending a policy which would permit superior high school students to enrich or accelerate their education. This report was referred to the Senate Committee on Admissions. It was revised and re-submitted by both committees on June 2, 1960 and was approved by the Senate. See Faculty Bulletin 6/10/60.

F. *Improvement of instruction — Advising, preparation for new teachers — examination techniques — teaching aids.* Recommendations were presented to the Senate on May 5, 1960 concerning each of the above instructional responsibilities or functions. The report was approved. See Faculty Bulletin 5/27/60.

The Educational Policy Committee, also considered several questions at the request of President Walker and replied directly to him.

The Chairman acknowledges with thanks the active participation of each committee member. Special recognition should be accorded Mr. G. N. Thiel for his adequate and concise minutes of each meeting. The excellent reports of the sub-committee on "Improvement of Instruction" under the chairmanship of Dr. Paul Althouse are also acknowledged.

R. E. Larson, *Chairman*

CALENDAR

Saturday, Sept. 17

Fall semester registration ends, noon.
Football, versus Boston U., Beaver Stadium, 1:30 p.m.

Sunday, Sept. 18

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther M. Harshbarger, University chaplain.

Monday, Sept. 19

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Chauncey P. Lang, professor emeritus of agricultural extension, on "The First Agricultural Fair of India."

Fall Semester Classes begin, 8 a.m.

Tuesday, Sept. 20

Graduation exercises for Latin American Education Project, 8 p.m., HUB Assembly Room.

Thursday, Sept. 22

Meeting of faculty of the College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

Friday, Sept. 23

Joint Chemistry, Physics, and Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Heinz K. Henisch, senior lecturer, Reading University, England, on "Electroluminescence."

Agriculture —

(Continued from page three)

many farmers. Thomas R. Terrill is now in charge of the station. At Arndtsville, Dean Asquith, Frank Hewetson, and Fred H. Lewis have formed a team which has had the confidence of the fruit growers of Adams and surrounding counties. Lewis D. Wissinger is the supervisor of the new station at Rector.

The entire Commonwealth fits into

the research picture, too. Each year thousands of Pennsylvanians contribute their land, materials, and time for projects which are best carried out on the home farm. Virtually every county contributes in some measure to projects in livestock or poultry, crops and soils, horticulture, wildlife and forest management, and social sciences. It is estimated, for example, that a thousand farmers cooperated last year in crops and soils research and 9,000 in animal and poultry programs.

The off-campus research program is

a two-way street. Not only are projects "farmed out" to other areas but these areas send back problems for study by the staff on the main campus. Recognition of new insects or diseases by trained persons in the field makes it possible for action to be taken before real damage is done, in many instances.

The Commonwealth's agricultural industry is a billion dollar a year enterprise; its welfare isn't left to chance by the Agricultural Experiment Station.

faculty BULLETIN

Vol. 48, No. 11

Sept. 16, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

In Germany

PUBLIC clamor in West Germany for reunification of all German territories is being used as a pretext by East German Communists for the current wave of harassments and travel curbs in Berlin, says Dr. Dagobert de Levie, associate professor of German.

Recently returned from West Germany after a month of research and lecturing, Dr. de Levie was amazed at the change in the attitude of West Germans from that he experienced last December when he held a visiting professorship there and during two other trips in the past three years.

Formerly, he says, the subject of reunification was only academically discussed and then only in relation to the Soviet Zone.

"But now this area is only part of the reunification being urged and the subject is on the lips of people everywhere."

Without doubt the transformation is related to the coming national elections next spring. Leaders of all major political parties are making an appeal to German voters who are refugees from the Soviet Zone and from East Prussia and Upper Silesia, two former German areas now under the control of Russia and Poland.

"There are said to be 1,500,000 East Prussians in West Germany, and they of course have many friends. They constitute an important segment in any election. To them, reunification is a popular subject and politicians are keenly aware that it is."

A very significant change in the

(Continued on page three)

► **NEWCOMERS:** The colloquium for new faculty members will be held tomorrow morning, starting at 7:55 a.m. and continuing until noon in the ballroom of the Hetzel Union Building.

The program will include talks by President Eric A. Walker, Lawrence E. Dennis, Dr. Harold K. Schilling, Dr. Robert G. Bernreuter, Lawrence J. Perez, J. William Wilson, Walter H. Wiegand, Dr. M. Nelson McGeary, and Dr. Leo H. Sommer. There will also be an opportunity for the faculty members to ask questions.

► **RADIO:** Educational radio networks will come under scrutiny when 20 national leaders convene in the HUB on Sunday for a two-day conference.

Objective of the networks under study is to make available the facilities and programming of many colleges and universities and other educational units to all affiliated stations.

On Sunday, the Live Radio Network Committee of the National Association of Educational Broadcasters will meet to discuss development of a national network. Monday's meeting will bring together representatives of stations currently affiliated with the Educational Radio Network.

Dr. Harold E. Nelson, associate professor of speech and general manager of the Penn State station, WDFM, said that some of the technical experts will remain until Tuesday to explore the network potential of WDFM.

► **ARTISTS:** Poet Marianne Moore will present the first program in the 1960-61 Artists Series on Wednesday, Sept. 28 at 8:30 p.m. in Schwab Auditorium. Tickets for the presentation by Miss Moore will go on sale to the public on Tuesday, Sept. 27, at the HUB desk, beginning at 9 a.m.

Miss Moore has gained many signal honors for her writing, including the Pulitzer Prize for poetry in 1951.

Non-students are reminded that they may not make use of student tickets for the Artists Series and it will be necessary to turn away those who present student tickets not entitled to them. The price of tickets to the public is \$1.25.

► **FELLOWSHIP:** Nominations for Woodrow Wilson National Fellowship Foundation fellowships will close Oct. 31. A thousand fellowships will be granted nationally, designed to encourage outstanding students to consider college teaching careers by providing a stipend of \$1500, plus full tuition and fees, and an allowance for wives and children, for the first year

of graduate work at any university in the United States or Canada.

Candidates for the award must be nominated by a faculty member. Nominations should be sent this year to Prof. Willis D. Weatherford, Swarthmore College, Swarthmore, Pa.

Additional information may be obtained from Dr. Howard A. Cutler, 302 Old Main, who points out that since 1945 eight Penn State students have won fellowships, three of them last year.

► **ENROLLMENT:** As of Saturday noon, Sept. 17, a total of 15,741 students had enrolled at University Park and, with late registrants yet to come, complete figures are expected to top 16,000. Enrollment at the corresponding time last year was 14,498 and the final figure was 14,786.

► **TEA:** The University Christian Association and Cosmopolitan Club are sponsoring a tea honoring international students on Sunday, Sept. 25 at 3 p.m. in the lounge of the Helen Eakin Eisenhower Chapel.

► **PRESS:** The latest publication of the Pennsylvania State University Press is now available. It is the proceedings of the 13th National Conference on Administration of Research. The Conference was held last September at Rensselaer Polytechnic Institute on the subject, "Perspective and Prospects for the Space Age." Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture serves as secretary of the Conference.

► **SEMINAR:** A seminar on the high temperature properties of materials has been planned by the department of engineering mechanics, the speakers for which will include faculty members of the Colleges of Chemistry and Physics, Mineral Industries, and Engineering and Architecture.

The subject of high temperature properties is a timely one in view of the many current military and industrial operations at high temperature, including missiles, gas turbines, and high-speed aircraft.

Dr. Joseph Marin will be the speaker at the first seminar on Monday, Sept. 26 at 4:15 p.m. in Room 105 Mechanical Engineering. He will speak on "Stress-Strain Properties for High Temperature."

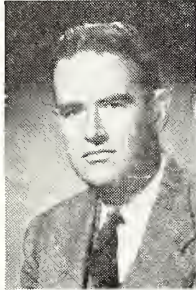
► **CENTENNIAL:** Dr. Ben Euwema, dean of the College of the Liberal Arts, has been named to a national committee of the American Association of Land-Grant Colleges and State

(Continued on page two)

McGeary's book on Pinchot

GIFFORD PINCHOT was one of the most prolific writers ever to visit the national and State governmental scene and, as if he knew early in life that he would someday be an important figure, he became a saver.

So today there is a veritable mountain of documentation — his own letters, correspondence from others, etc. — which challenges any investigator of his 51 colorful years.



McGeary

Dr. M. Nelson McGeary, professor of political science accepted the challenge and this week the results of his study appeared in the form of a Princeton University Press book, "Gifford Pinchot, Forester-Politician."

The file of Pinchot documents in the Library of Congress, the source of much of Dr. McGeary's material, consists of 3,300 manuscript boxes and is said to contain a million papers. He went through every box, although it was obvious on a quick inspection of some boxes that detailed search would not be fruitful. Some order existed in the chaos — for example, a box would be labeled in a general way such as "Prohibition Enforcement, 1931-32" — but it is little wonder that Dr. McGeary required 10 months of solid effort to get what he needed in Washington.

The book looks at the two careers of the two-time governor of Pennsylvania, conservation and politics, both of which are exciting in that Pinchot always approached a problem with full force, and seemed to be forever in a battle with someone, either in his role as champion of the rights of the public to natural resources or as a progressive Republican.

Writing about the two careers in a book of reasonable length takes some doing, but Dr. McGeary has come up with a biography which will be of interest not only to the historian and political scientist but also to the lay reader.

Considerable space in the book is taken up with the "Pinchot-Ballinger

fight which may not be well-known to present-day readers but about 1909-10 was a national topic of conversation which would be akin to the Army-McCarthy controversy of a few years ago. The Ballinger battle, too, was cause for Congressional investigation and can probably be said to be responsible in considerable measure for the weakening of President Taft's position as chief executive.

Pinchot was a leading figure in the conservation movement at the turn of the century and later, and was in the battle with Teddy Roosevelt up to the hilt. His skirmish with Ballinger, whom Taft appointed Secretary of Interior, stemmed from their differences of opinion on conservation and the government's role. Eventually, the differences took on many more aspects.

In the end, a majority of the Congressional committee exonerated Ballinger but it was a hollow victory and within a few months he had resigned, which led Pinchot to accept the victory as his own. In one respect at least it was — the public was now more aware than ever of the conservation movement.

News —

(Continued from page one)

Universities for observance of the Association's centennial in the 1961-62 year.

The committee is the Association's Division of Arts and Science group, which will first evaluate the work being done in the general arts and science group, which will first evaluate the work being done in the general arts and science field in the Land-Grant system and seek assessment by informed "outsiders." Recommendations on how the job can be done better in the future will follow. Evaluation programs will be carried out next year and results reported at the Kansas City centennial convocation in November, 1961.

Division and council centennial committees will also be responsible for liaison with national societies, associations and similar groups.

Pinchot was both impetuous and outspoken, two characteristics not generally associated with successful politicians. But, Dr. McGeary points out, when Gifford ran for the governorship of Pennsylvania in 1922 he showed an uncommon political shrewdness and an ability to learn quickly the tricks of the trade. The book goes into Pinchot's political campaigns in the State in some detail.

Although born in Connecticut, Gifford was a Milford, Pa., native and died and as buried there. However, much of his career was spent in Washington and he always had an attachment for the city. Pinchot's memory is honored in a new 2,000 acre park near York, Pa., and on a huge redwood tree in California, bearing a plaque which says, "This tree is dedicated to Gifford Pinchot, Friend of the Forest, Conserver of the Common-wealth."

Dr. McGeary has had a continuing interest in the former Governor, since his Pennsylvania government courses refer to Pinchot frequently. He made a special effort to treat his subject objectively, but a career as explosive, colorful, and controversial as this is not easy to treat impartially. One reviewer has called the book "unvarnished." There are undoubtedly readers whose memories would not place Pinchot in too favorable a light, and might therefore not agree.

They would have to agree, however, that Dr. McGeary has presented an interesting treatment, the first ever done on The Forester.

President Walker is a member of the Centennial Committee.

► **SCHOLASTIC:** More than a fourth of all bachelor degree students at all campuses of the University were subject to some kind of scholastic action during the Spring Semester, 1960, a summary provided by the Office of the Registrar reveals.

The actions are summarized under three headings — dropped, placed on probation, or warned. Of the 13,373 students listed, 4.97 per cent were dropped, 9.30 were placed on probation, and 15.14 per cent were warned, or a total of 29.41 per cent (3,933 students).

Action was taken against 41.67 per cent of the freshmen, 33.78 per cent of sophomores, 13.89 per cent of juniors, and 11.79 per cent of seniors. Of the 340 seniors, 34 were dropped, 119 put on probation, and 187 warned.

Comparison of the 1960 results with

Germany —

(Continued from page one)

public references to areas under Communist rule has taken place, and it illustrates the importance of reunification. Formerly, the Soviet Zone of Germany was referred to as East Germany; today that area has become "Middle Germany" and Upper Silesia and East Prussia are now "Ostdeutschland."

Both Konrad Adenauer and Willie Brandt, who will contest for the highest position in the nation next spring, have held out hope to the refugees that they will one day be able to return to their native lands.

"They stress," says Dr. de Levie, "that they think this can be accomplished by peaceful means and that self-determination is all they are asking for. But they know that it cannot be done this way."

"It is a false hope they are giving these people, as the German philosopher Karl Jaspers pointed out in a television show in August. Jaspers urged West Germans not to stress national reunification but instead to place the ideal of personal freedom first."

"He emphasized that reunification was unreal politically and philosophically, resting as it does on the political concept of the Bismarckian Reich, which was forecited once and for all by the Hitler Reich."

"For this, Jaspers has been severely criticized by nearly everyone."

IN this atmosphere, Dr. de Levie points out, East German Communist rulers fear for the future. They can,

those of the previous year reveal an improvement (reduction) in all categories. Total actions in 1959 numbered 4,060, or 31.8 per cent of the students in bachelor's degree work.

► **FOOD:** Service in the cafeteria and Maple Room of the Home Economics Building will begin on Tuesday, Sept. 27. Cafeteria luncheon will be served each Tuesday through Friday from 11:50 a.m. to 12:30 p.m. Dinner with table service will be served in the Maple Room Wednesdays and Thursdays from 5:30 to 6:30 p.m.

► **DOCUMENTS:** Many faculty members may be interested in the documents available at the Reference Department of Pattee Library on the results of cooperative studies by the U.S. Office of Education and universities, colleges, and state educational agencies in the entire field of education.

perhaps, see such a strong tide of nationalism developing that conflict would be inevitable. The immediate purpose in the travel curbs preventing West Germans from entering West Berlin was to stop the planned meetings of refugee and prisoner-of-war groups, charging that the rallies endangered peace. The Communist restrictions were clearly in violation of Four-Power agreements of 1945.

West German members of the two most popular political parties say that if they did not discuss reunification, then the neo-fascist elements would, and attract millions of voters who would be misled by promises of Lebensraum (living room) and restoration of the German boundaries of Hitler's Reich.

Dr. de Levie is especially perturbed by these recent developments in Germany because he can see that disappointment and frustration are certain when reunification cannot be accomplished. Either complete political apathy or radicalism will result, he feels.

"The German people do not understand politics as Americans do," he explains. "They do not accept these statements of their leaders as part of the election campaigns but as matters of state. When the political leaders cannot produce, there is no telling what the young people will do."

(Dr. de Levie was in West Germany from July 22 to Aug. 31, conducting research in the library of the University of Goettingen. He gave the lecture-of-the-month at the Amerika Haus in Kiel, on "Patriotism, Political Education, and the Clergy." During his stay in Bad Godesberg he conferred with the American cultural attaché and other officials of the Embassy staff.)

These studies, which were authorized under Public Law 531 (1954), cover a wide variety of problem areas in education; for example, problems resulting from population mobility, research on students, teachers, teaching and learning, recruitment of faculties, etc. They are of such scope that they may be of assistance to almost anyone studying the problems of education from kindergarten to the doctorate.

The number of projects under contract with the Office of Education had increased, by December, 1959, to 265, at 97 colleges and universities, and 15 state agencies. Three Penn State projects are among them.

The documents reporting the results of these studies are not available through the card catalogue and those wishing to study them should consult indexes of Office of Education Bulletins 1958/No. 5, 1959/No. 18,

(Continued on page four)

CALENDAR

Friday, Sept. 23

Joint Chemistry, Physics, and Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Heinz K. Henzisch, senior lecturer, Reading University, England, on "Electroluminescence."

Saturday, Sept. 24

Registration boys and girls in grades 1-6 for special program in physical education activities at White Hall, 8 to 10 a.m.

Soccer, versus Bucknell, 10 a.m.

Graduate Student Association Square Dance for graduate students and faculty members, HUB ballroom, 8:30 p.m.

Colloquium for new faculty members, 7:55 a.m. to 12 noon, HUB ballroom.

Sunday, Sept. 25

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. B. Davie Napier, Holmes professor of Hebrew literature, Yale University.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. P. Barrett Rudd, associate director of UCA.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Tea honoring International students, 3 to 5 p.m., Helen Eakin Eisenhower Chapel lounge, sponsored by the UCA and Cosmopolitan Club.

Monday, Sept. 26

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Lawrence Fouraker, professor of economics, on "An Experimental Approach to Economics."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering, Dr. Joseph Marin, head of the department of engineering mechanics, on "Stress-Strain for High Temperatures."

Wednesday, Sept. 28

Artists Series program by poet Marianne Moore, 8:30 p.m., Schwab Auditorium.

Thursday, Sept. 29

Graduate Student Association, Mineral Industries Section, meeting in Mineral Industries Auditorium, 4:30 p.m. Dr. John D. Ridge, assistant dean, College of Mineral Industries, on "Graduate Programs in the College of Mineral Industries."

Senate Meeting, 4:15 p.m., Room 121 Sparks. (Please note change of date from previous announcement.)

Friday, Sept. 30

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. D. M. C. MacEwan, lecturer in physics, University College, Dundee, Scotland, on "Interlamellar Reactions of Clays and Other Substances."

Alumni Homecoming weekend begins.

Television broadcasts

WFBG, Channel 10, Altoona

MONDAY, SEPT. 26 — "Postscripts," with Marlowe D. Froke, 9:50 a.m. Interview of Dr. C. R. Carpenter, director of DARS. Wednesday, Sept. 28, interview of Dr. J. Kaufman, associate professor of economics. Friday, Sept. 30, interview of Dr. Dagobert de Levie, associate professor of German.

MONDAY, SEPT. 26 — Farm, Home, and Garden program, 12:30 p.m., also each weekday. Guests for the week: Hannah Huff, H. O. Triebold, Jr., Helen Butler, Mary F. Houser, and Thomas Kelly.

Items of interest

Books

FERGUS, C. L., botany and plant pathology, a manual, "Illustrated Genera of Wood Decay Fungi," published by Burgess Publishing Co., Minneapolis.

Articles and Papers

GOBBLE, J. L., a paper, "Silages in Rations for Brood Sows," at the North Atlantic Section meeting of the American Society of Animal Production.

HOOGENDOORN, A. A., history, an article, "Appomattox Was Not the End," containing reviews of nine Civil War books, in the July 16 issue of Saturday Review.

HOSLER, C. L., meteorology, two papers at the International Congress on the Physics of Clouds, Verona, Italy, on "Short-Period Fluctuations in Ice Nucleus Count" and "The Aggregation of Small Ice Crystals in Clouds."

JUAREZ-PAZ, Rigoberto, philosophy, an article "Ortega y la renovacion del problema del Ser . . ." in the June issue of Cuadernos Hispanoamericanos. Madrid.

MORSE, J. M., English, a paper, "James Joyce's Mephistophelian Style," at the eighth triennial meeting of the International Federation for Modern Languages and Literature, Liege, Belgium, Aug. 28-Sept. 4.

— an article, "The Uses of Obscurity," in New World Writing, No. 17, published by Lippincott and Co.

Papers by the following members of the faculty of the College of Chemistry and Physics at the 138th national meeting of the American Chemical Society in New York: THOMAS WARTICK, L. H. SOMMER, MAURICE SHAMINA, JOSEPH JORDAN, J. A. DIXON, W. A. STEELE, WAYNE WEBB, and A. E. WOODWARD.

WERNHAM, C. C., plant pathology, an article titled "Disease Resistant Synthetics of Corn Germ Plasm," in the current issue of Maize Genetics Cooperation, a world-wide report on corn genetics research.

Elected or Appointed

BRATZLER, J. W., animal industry and nutrition, elected secretary-treasurer of the North Atlantic Section, American Society of Animal Production.

FROKE, M. D., journalism, elected to the Radio-Television Council of the Association for Education in Journalism.

GOODWIN, H. E., journalism, elected vice-president, American Association of Schools and Departments of Journalism.

HICKS, R. L., journalism, elected to the Advertising Council of the Association for Education in Journalism.

SNYDER, W. U., Psychology Clinic, elected to three-year term on the Executive Committee of the Division of Clinical Psychology, and also to the Council of Representatives of the American Psychological Association.

Lectures and Talks

CURRY, H. B., mathematics, a lecture on "Markov Algorithm" before a group of the Programming and Mathematics Division of the U. S. Naval Electronics Laboratory at San Diego, Calif.

HARNETT, A. L., physical education, a talk on "School Health and the Heart Associations," at the annual meeting of the Pennsylvania Heart Association at Bedford Springs, Sept. 18.

HUNT, J. W., mining engineering continuing education, a talk, on "Men, Mines and Machines," before the Williamsport Kiwanis Club.

JOHN, M. E., rural sociology and agricultural economics, a talk on the value of research to the agricultural industry, at the 11th annual convention of the Florida Flower Association, Oct. 9-12.

PERKINS, H. W., Wyomissing, a talk on the Center before the Reading-Berks Chamber of Commerce.

THOMPSON, S. E., hotel and institution administration, guest lecturer on the subjects, "Principles of Executive Leadership"; "Principles of Personnel Management"; and "The Motivation of Employees," at the Executive Development Program sponsored by the National Restaurant Association, Sept. 19-23.

WARTIK, THOMAS, chemistry, a talk on "Some Properties of Solvated Aluminum Hydride," at the Gordon Conference at New Hampton, N. H.

YEATON, KELLY, theatre arts, a talk before the Penna. Council of Teachers of English Conference on the subject, "Semantics of the Theatre: A Model, A Method, and a Grammar."

News —

(Continued from page three)

and 1960/No. 16, which report the cooperative research projects of fiscal 1957, 1958, and 1959, respectively. The Reference Desk will be of further assistance.

► **SCHOOLS:** The dinner meeting of Phi Delta Kappa, honorary graduate educational fraternity on Monday, Oct. 3 in the HUB will feature as speaker, Dr. Charles H. Boehm, superintendent of Public Instruction of the Commonwealth. He will talk on "What You Don't Know About Your Schools."

The public is invited to attend the meeting either for dinner, which is cafeteria-style, or for Dr. Boehm's talk alone. Dinner is at 5:30 p.m. and the talk will be about 6:45 p.m.

Phi Delta Kappa is an international organization of over 60,000 members representing all areas of professional education. Dr. John D. McAulay, associate professor of elementary education, is president of Alpha Tau chapter of Penn State.

► **LECTURE:** A joint colloquium of the Colleges of Chemistry and Physics and Mineral Industries will hear Dr. Heinz K. Henisch, senior lecturer of Reading University, England, on Friday, Sept. 23, at 4:15 p.m. in the Mineral Industries Auditorium, Room 26, Mineral Sciences. He will speak on "Electroluminescence."

► **SENATE:** A previous announcement gave the date of the first Senate meeting of the new academic year as Oct. 6. The date has been changed to Sept. 29 and the meeting, as usual, will be at 4:15 p.m. in Room 121 Sparks.

faculty BULLETIN

Vol. 48, No. 12

Sept. 23, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

On research

(The following are excerpts from an address by President Eric A. Walker before the 14th annual Conference on the Administration of Research, Sept. 20, at the University of Michigan.)

AN overriding implication of the political and economic realities of the age in which we are living is the revolutionary increase in the need and the demand for research. Along with this has been the fact that research productivity has become not simply a matter of national concern but even of national survival. And, from this, it follows that the Federal government has become the principal purchaser — or chief patron — of research in our country. In fact, the support of research has this year joined low taxes and increased social benefits as a sure-fire issue in the presidential campaign. And, since research is a traditional function of institutions of higher education, all this has had a tremendous influence on the operation of American colleges and universities.

* * *

Research has become an economic and political necessity; and the scientist and research worker have become, whether they like it or not, deeply involved in the affairs of the world and of men. The extension and application of knowledge have become a necessary condition of human welfare and even of the preservation of human dignity and freedom. In this reality, the scientific community must accept responsibilities lying outside its own interests and ambitions. And, to discharge these responsibilities, individual scientists — at least, a large number of them — must accept a certain measure of direction. As inappropriate as it might sound at first, I should like to remind you that a mob does not make an army. Neither does a large amount of uncoordinated, undirected

(Continued on page four)

NEWS IN BRIEF

► **APPLES:** Sale of University-grown apples began this week at the dairy salesroom in the Creamery.

About 2,500 bushels of MacIntosh, Delicious, and Winesap apples will be available for sale over a period of several months as they are graded and packaged.

Sales will be made by the bushel box, by the four-pound bag, and at the counter by the individual apple.

Dr. D. V. Josephson, head of the dairy department, has also announced that the sale of eggs, which has been temporarily halted because of the changeover of flocks, will be resumed about Oct. 1.

► **CLASSROOM:** The department of mathematics and Continuing Education Services are cooperating in offering the program of Continental Classroom for the 1960-61 academic year in the fields of mathematics and mathematics teaching.

Math 9, Modern Algebra, may be taken by undergraduate students for credit and Sec. Ed. 426 may be taken for graduate credit by those seeking advanced work in teaching of mathematics.

Continental Classroom is a nationally televised series which this year will provide college-level instruction in mathematics and also in chemistry. Penn State is not making available the chemistry course for credit.

Mathematics will be shown each morning from 6:30 to 7:00 a.m. The programs on Monday, Wednesday, and Friday are intended for the undergraduate work in algebra. On Tuesday and Thursday, the emphasis will be on the teaching of mathematics.

A viewing room has been set up in Room 309 Sparks for those who have no television set.

Dr. Andrew V. Kozak, associate professor of secondary education, is in charge of the program in the field of teaching, and Marjorie D. Maek, instructor in mathematics, the program in algebra. Students seeking to view these courses for credit should sign up at the Continuing Education Services offices in Sparks Building.

► **BUILDING:** Two building projects have been approved by the General State Authority, at a total authorization of more than \$230,000. Horticultural facilities, costing \$165,886, have been authorized, to consist of greenhouse and other laboratory rooms and work rooms at the Pine Grove Mills experimental center.

To match a grant of \$67,750 by the

National Science Foundation, CSA has approved funds for a two-story unit in the courtyard of the Mineral Sciences Building, providing about 5,000 square feet of floor space for research and graduate programs in the field of high temperatures and very high pressure.

► **AID:** Total financial assistance to Penn State undergraduates amounted to \$1.5 million last year and the sum is expected to be higher this year. National Defense Education Act borrowing totalled \$395,419; University loan funds provided \$270,358; scholarships and grants-in-aid added up to \$600,000; part-time work on and off campus accounted for \$200,000.

► **HORT SHOW:** The 47th annual Horticulture Club Show will be held this weekend as one of the highlights of the Homecoming Program. The always-popular show will be held in the Stock Judging Pavilion (on Ag Hill) from 9 a.m. to 9 p.m. Saturday and 9 a.m. to 7 p.m., Sunday. The display will feature pomology, olericulture, floriculture, plant breeding, fruit and vegetable processing, ornamental horticulture, and landscape architecture.

► **FACTS:** Still available are the wallet-size cards containing facts and figures about the University which are of help to faculty and staff members for talks and papers. These cards are obtainable from the office of Reed Ferguson, director of University relations, 201 Old Main, in quantity and at no charge.

► **AWARD:** Dr. Peirce F. Lewis, assistant professor of geography, won first prize and an honorarium of \$1,000 for his paper given last month at the International Geographical Congress in Stockholm, Sweden.

The paper was titled "Topography in the Southwestern Palouse Hills, Washington-Oregon." The contest was sponsored by the Association of American Geographers.

► **EXHIBITION:** A hundred black and white photographic prints make up an exhibit titled "The World of Edward Weston," now on display in the HUB gallery, where it will remain until Oct. 12. The exhibit is being circulated by the Smithsonian Institution Traveling Exhibition Service.

► **SCIENCE:** Dr. H. Seymour Fowler, associate professor of nature education, is chairman of the Teaching Materials Review Committee of the National Science Teachers Association.

(Continued on page three)

Plan for school integration

WHEN the Committee of Fifteen of the Pennsylvania State Education Association presented a plan (Education in Pennsylvania Today and Tomorrow, December, 1958) for the future of education in the Commonwealth, it included a suggestion for a program of segregating secondary school youngsters for part of the day according to their performance.



Dr. Davison

"It would be interesting," muses Dr. Hugh M. Davison, professor of education research and a member of the Committee, "if this proposal for ability segregation was an answer to our national problems of social segregation."

Dr. Davison is intimately connected with the graduate program in the College of Education and is in a unique position to learn of the problems in the school systems of many states. Our graduate students include educational leaders from virtually every state and the programs they outline for study inevitably reflect the questions of import in their work.

One of the recurrent problems, not alone in the South, is the integration and segregation of pupils in the schools because of color.

Data from Penn State studies at Sparrows Point, Md., Columbia, S. C., and Norfolk, Va., as well as from other investigations, inescapably point to one fact on the subject of segregation: the problem which is basic and without emotion or feeling on the part of both races is the resulting effectiveness of the education provided as a result of integration or the way integration is implemented.

"The one bench mark," says Dr. Davison, "where all can start, is an earnest acceptance of the education best for the children."

Accomplishing this objective requires finding an answer to two major roadblocks — the white community, which is seeking to maintain social status by indirect controls, and the negro community which is trying to raise its social status through better job opportunities and education.

"The problem would be solved," Dr. Davison says, "if the two communities were not so clearly identifiable, but they are."

The white community, he points out, fears the decline of educational

effectiveness if integration is forced, and with some justification. Some negro leaders see the same possibility.

"In a situation of complete integration, the educational lag of the negro student can have a depressing effect on the accomplishment of a class. This is not a problem of negro teacher education, which is good, but an inequality of home environment and educational aspiration within the negro student and frequently his parents. Motivation is frequently lacking because prospects for eventual status are dim. Among many American Negroes, for social reasons or because of disinterest, there has not been an acceptance of social responsibility."

How can the schools adjust themselves and their students to make harmonious programs? The curriculum structure of the Committee's proposal may be the answer. At the time the Committee studied the curriculum question it did not have the negro-white problem in mind. Pennsylvania has been working on these social-education problems for a long time, however, Dr. Davison points out.

The Committee's curriculum proposal recognizes that pupils learn at different rates, but that their program should have two common and basic aims: citizenship or universal education, and education for individual needs.

"The problem," says the Committee, "is to provide for groupings (of pupils) so that each student may benefit to the greatest extent possible from the educational offerings, and progress as rapidly as possible to the completion of the elementary and secondary programs."

In a school of sufficient size, it is reasonable to expect the pupils would be grouped naturally as follows: 10 per cent, accelerated; 20 per cent, advanced; 40 per cent, middle; 20 per cent, near middle; and 10 per cent, special. Pupils in the accelerated group might conceivably complete the same elementary skill development in six years which would take the advanced group seven years and the middle group eight years. The high

school academic program would start for the accelerated group at approximately age 12 and be completed by age 16, whereas the middle group would begin at age 14 and complete the work at 18. (This is only a sample method, and is not to be construed as a pattern for all schools.)

Basic to the plan, however, is a recognition that the pupil needs to be provided for physically by being with his own age group. He would still spend six years in the elementary school, three years in junior high school, and three years in senior high school. For half of the school day (only an approximation) he would be in the same room with other children of his own age and ability, and for the other half day in a heterogeneous grouping.

The typical curriculum assumes that certain courses lend themselves to development in heterogeneous groupings and others require segregation by ability or performance. Typical courses for the universal program (where pupils of all levels of the same age are grouped) would be art, music, physical education and health (in the elementary years) and extra-curricular work, industrial arts, homemaking, basic business, and vocational courses in the later years.

On the other hand such courses as English, foreign languages, science, reading, and computation fit naturally into a pattern of teaching segregated classes (according to ability).

A pupil would not be held rigidly to a certain grouping. Dr. Davison points out. "As the child increased or decreased in his relative performance he would be shifted to the teacher and classroom most suitable to his learning rate."

"This would enable the teaching of academic skills to be steadily planned, articulated from grade to grade. The use of several paths to high school graduation would provide for various talents and interest."

This concept of education is no mere dream. Aspects of it are already in operation in Allentown, Williamsport, New Castle, Newtown, Johnsville, State College, and other Pennsylvania communities. But its full development will depend on the schools themselves, since the Commonwealth does not mandate this type of development.

The solution to the segregation problem, it is argued, is through education. Dr. Davison believes that this new concept may be the best way for communities to solve their own segregation problems. It substitutes performance testing for discrimination and ability-interest paths for rigid curricula.

(Continued from page one)

Purpose of the committee is to review and report on teaching materials used in elementary and secondary school science programs. Regular reports of the work are published in "The Science Teacher," journal of the NSTA.

Assisting Dr. Seymour are three members of the faculty, Dr. Dorothy Alfke, George Free, and Dr. Burton E. Voss, all of the College of Education, as well as several high school teachers and Dr. Herman Kranzer, of Temple University, formerly at Penn State.

The materials considered include books, films and filmstrips, tape recordings, charts, laboratory apparatus and equipment, and related items.

► **FOOD:** Representatives of major food industries in the State — chain stores, independent wholesalers and grocers' associations, and other groups interested in food retailing and distribution — will meet on campus Oct. 19. Their discussions will center around three questions: (1) Is there a need for a major (curriculum) in food retailing and distribution; (2) how can the current offerings at Penn State be strengthened; (3) how can students be recruited for this major?

► **AVERAGES:** A study of the distribution of All-University averages of 13,373 undergraduate students at the completion of the Spring Semester shows that ten students have perfect averages (4.00) and that only 23.7 per cent of all students have averages below 2.00.

The tabulation reveals that almost exactly two-thirds of the freshmen had averages of 2.0 or better and only 11.3 per cent were under 1.4.

► **NSF FELLOWSHIPS:** Advisers of outstanding seniors and graduate students are asked by the Graduate School office to call to the students' attention that application materials are now available for the National Science Foundation Cooperative Graduate Fellowships for 1961-62.

Complete application materials must be in the office of the dean of the graduate school of the student's choice by November 4, 1960.

About 1100 fellowships will be awarded nationally in this program. Provided are a stipend of \$2,200 for 12 months or \$1,650 for the academic year and tuition. Last year Penn State was permitted to recommend 36 candidates out of 63 completed applications and the Foundation awarded fellowships to 20 of these. This year the University may recommend 43

candidates, the quota being determined by the number of doctoral degrees in the sciences awarded during the last several years by the 161 participating institutions.

Recipients are selected on the basis of academic records, recommendations, and Graduate Record Examination scores. A special committee of the Graduate School will select the 43 to be recommended to the NSF. Applications of all applicants, whether recommended or not, are sent to Washington for re-evaluation by a panel of scientists.

Fellowships are awarded in the mathematical, physical, medical, biological, and engineering sciences, including anthropology, psychology (excluding clinical), and the following social sciences: geography, mathematical economics, econometrics, demography, information and communication theory, experimental and quantitative sociology, and the history and philosophy of science.

Students are asked to provide a written statement from the head of their department to the effect that the department is willing to support their application when they seek application materials at the Graduate School office, 104 Willard. Students should contact their department head without delay for his approval, secure forms, and begin preparing their applications.

Summer fellowships for students who have been teaching assistants for one academic year (teaching or assisting at least eight hours per week). An instructor who is also a graduate student is also eligible. Application materials are available at the Graduate School office. They must be received in complete form by Dec. 9. An eligible student may apply for a summer fellowship for 1961 and also for a Cooperative Fellowship to start September, 1961, for 12 months tenure. More information on these awards, for which the University may recommend 20 applicants, may be obtained in 104 Willard, or UN 5-6223. Ask for Mrs. Johnson or Dr. VanOrmer.

Television broadcasts

WFBG, Channel 10, Altoona

MONDAY, OCT. 3 — "Postscripts," with Marlowe D. Froke, 9:50 a.m. Interview with J. M. Duich, assistant professor of agronomy; Oct. 5, Luther Kepler, coordinator of television; Oct. 7, Dr. Clifford R. Adams, professor of psychology.

MONDAY, OCT. 3 — Farm, Home, and Garden program, 12:30 p.m.; also each weekday; Guests for the week: A. R. Keniston, Allen Bauer, Ruth Ball, C. P. McMinn, and Gray Mattern.

CALENDAR

Friday, Sept. 30

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. D. M. C. MacEwan, lecturer in physics, University College, Dundee, Scotland, on "Interlamellar Reactions of Clays and Other Substances."

Alumni Homecoming weekend begins.

Fluid Mechanics Seminar, 4:10 p.m., Room 211 Mechanical Engineering. Samuel Shulits, professor of civil engineering, and Dr. George F. Wislicenus, director of the Garfield Thomas Water Tunnel, on a report of the National Science Foundation conference on instruction of fluid mechanics.

Geography Colloquium, 4:15 p.m., HUB Auditorium. Robert Ho, chairman of geography department, University of Malaya, on "Man and Land in Malaya."

Graduate Student Association mixer, for graduate students and faculty members, HUB ballroom, 9 to 12 p.m.

Saturday, Oct. 1

Coffee hour for Home Economics Alumnae, Maple Room, Home Economics, 9:30 a.m.

School of Journalism Coffee Hour, Room 9, Carnegie Hall.

Alumni Luncheon, 11:30 a.m., HUB ballroom.

Freshman football, versus West Virginia, 10 a.m. (Old Beaver Field).

Varsity football, versus Missouri, 1:30 p.m., Beaver Stadium.

Alumni Cider party, 8:30 p.m., HUB main lounge.

Horticulture Show, Stock Judging Pavilion, all day.

Sunday, Oct. 2

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Sittler, professor of theology, University of Chicago Divinity School.

Horticulture Show, Stock Judging Pavilion, all day.

Monday, Oct. 3

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Frederick R. Matson, assistant dean for research, College of the Liberal Arts, on "An Archeologist at Work in Iran and Afghanistan."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. L. W. Hu, associate professor of engineering mechanics, on "Thermal Stress Analysis for the Plastic Range."

Tuesday, Oct. 4

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Roland Keeling, Gulf Research and Development Co., Pittsburgh, on "Investigations of X-Ray Absorption Edges in Catalysts."

Agronomy Seminar, 4 p.m., Room 111 Tyson. Dr. Jos. A. Chucka, Eastern States, and Madylin Kilmoyer, personnel specialist, Penna. Farm Bureau Coop. "Human Factors in Professional Careers." All interested persons invited.

Wednesday, Oct. 5

Forestry Convocation, 11 a.m., Room 121 Sparks. Richard E. McArdle, chief of the Forest Service, U. S. Dept. of Agriculture.

Chess Club, HUB card room, 7 p.m. (Faculty members invited.)

Friday, Oct. 7

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. T. E. Sterling, University patent counsel, on "Legal Protection for Your Intellectual Ideas."

Research —

(Continued from page one)

research add up to a significant assault against the massive problems we face today.

And, as a matter of fact, the physical conditions under which the assault must be made have undergone a revolutionary change. In many areas, the professor working alone with a handful of apprentice scientists is no longer an effective attack party. Now the scientist must be provided with equipment valued in the millions of dollars and so complex that a corps of specially trained specialists is needed to operate it. In fact, we must now admit, if we are completely honest, that having the right equipment is now sometimes more important to the success of research than having the right man. And the right "man" today is typically a group of men, each a specialist in his own right, working under the direction of a project leader.

* * *

The volume of research itself antiquates older practices. Today more than one-fourth of the *total* bill for higher education in our country is being spent for research and development. Since participation in this effort is very slight for most colleges and many universities, for some institutions this percentage must range perhaps as high as 50 per cent.

* * *

The fact that research has become an important instrument for achieving our national aims and objectives; the steadily increasing size, complexity, and cost of both research instruments and research projects; the tremendously increased volume of research being conducted; and the multiplicity of purchasers of university research — all these things change research from a personal matter to an institutional one. This shift is necessary today if for no other reason than to protect the freedom of the individual researcher and to conserve his time for research activities. Within the framework, at least, of the search for truth and knowledge, the scientific community must recognize the validity and the need for some "outside" direction, for the imposition of some aims and objectives lying beyond the personal interests and desires of individual scientists. We

must accept, under these realities, the principle of subsidizing research by subject-matter area, as opposed to the older principle of investing in the individual scientist.

* * *

This year the Federal government will distribute something like \$700 million to educational institutions for research and development, and the amount is almost certain to be increased in the future. . . . How should it be distributed? To those institutions and people most likely to produce the best results? This policy will surely lead to an even greater degree of concentration of these funds in a few select institutions. Such concentration would lead to even greater competence and to still further concentration, with the possible result that these institutions might become, in time, huge research centers with little connection with the teaching function, at least at the undergraduate level.

* * *

Then there is the matter of stabilization of effort. Almost by definition, short-term contracts deny the program continuity that basic research must have to produce really significant results. Such contracts create many problems for universities. The lack of long-term commitments raise serious questions concerning the application of the university's tenure provisions and leads to inequities in the pay schedule. Sudden fluctuations in support cause financial embarrassment that affects the over-all university operation, and the possibility of such fluctuations leads to protective measures that reduce the university's research competence.

Finally, there is the matter of freedom of inquiry and of publication. Enough has probably already been written and said on the difficult matter of security classification and its effect on the progress of research. Here I will say only that I firmly believe that, in scientific research, the best possible security lies not in secrecy but in the maintenance of an energetic and productive research program.

* * *

The question remains, "How can

the government get what it needs without distorting or controlling the universities?" In casting around for models on which to base these arrangements, we have all but overlooked the oldest active program of this sort in the country. Yet, ironically, it is probably the most successful of them all. I'm speaking here of the Federal support program for agricultural research. Through this program, the government has been providing research grants-in-aid to our land-grant colleges continuously since 1887. The land-grant institutions have almost complete freedom in the use of these funds, since they are restricted only by the provisions of the land-grant acts, which specify only that the funds must be used for research in certain broad areas related to agriculture. They can be used for basic research, as in the case of biological science, or for applied research. To a considerable degree, they can even be used for overhead expenses. The continuity provided through the annual appropriations have made it possible for the directors of the agricultural experiment stations to plan their programs years in advance. The flexibility built into the grants have made it possible to accept industrial grants for applied research without upsetting the balance of the over-all program.

I cannot imagine a more productive use — or a wiser one — for Federal funds than the subsidization of "learned men devoting their lives to the cultivation of science." There is nothing wrong with the purpose. Our job is simply to work out satisfactory mechanisms. In the economic and political realities under which we live we shall have to work them out. Research has become a national necessity.

faculty BULLETIN

Vol. 48, No. 13

Sept. 30, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Calendar problems

ONE of the most immediate and major problems facing the University faculty in converting to a four-term calendar, which was announced this week in detail, is that of developing a schedule of courses especially for the 1961 term, says Dr. C. O. Williams, assistant to the president for special services.

The immediacy of the problem, says Dr. Williams, stems from the fact that a number of groups will be directly interested in their own future under this program. These include not only regular undergraduate and graduate students at Penn State but also teachers who come here for a summer program, students from other colleges who study at Penn State in summer, and new students who might wish to enter the University after graduation in June.

"It will be essential to give to all these students as early as possible a reasonable view of what we are to offer next summer," Dr. Williams adds.

The job of developing a summer term schedule will undoubtedly involve a number of other problems faced by departments, such as the availability of graduate students for teaching responsibility, and the effect of other commitments by faculty members during the summer months.

In assessing the planning tasks now facing the faculty and administration, L. E. Dennis, Vice President for Academic Affairs, said that "the individual faculty member will have several questions of over-riding importance.

(Continued on page four)

NEWS IN BRIEF

➤ **AWARD:** Dr. Erwin W. Mueller, research professor of physics, has been honored by the Instrument Society of America for his work in the development and use of the field ion microscope. The Society conferred the Distinguished Achievements Award, which consists of a commemorating plaque, a certificate, and a cash gift.

➤ **RECEPTION:** The women faculty and staff members and wives of faculty and staff members are cordially invited to attend the 12th annual fall reception of the Faculty Women's Club, to be held in the Hetzel Union Building ballroom, 7:30 to 9:30 p.m. on Monday, Oct. 10.

Current president of the Club is Mrs. O. R. MacKenzie. Last year the Club enrolled 750 members.

➤ **OFFICERS:** Sidney Siegel, professor of psychology, has been elected chairman of the Executive Committee of the Social Science Research Center for the current academic year. Other officers include: Jessie Bernard, professor of sociology, vice chairman; Otis E. Lancaster, secretary; James B. Bartoo, acting head of the department of mathematics, and John A. DeNovo, associate professor of American history. Administrative director is F. R. Matson, assistant dean for research in the College of the Liberal Arts.

➤ **TICKETS:** A new policy for the sale of tickets for Center Stage productions has been announced, effective immediately, by Penn State Players.

Patrons may now reserve tickets for any night of a six-week run in person at the HUB desk or by phone, UN 5-2563, and the tickets will be held until 7:40 p.m. of the evening of the performance. Formerly tickets were sold only at restricted times.

The first performance by Players at Center Stage will be Peter Ustinov's "Romanoff and Juliet," which begins Oct. 14.

➤ **UCA CAMPAIGN:** The annual fund-raising campaign among faculty and staff members for the work of the University Christian Association will take place during the week of Oct. 24.

To support the program of the UCA for the current year, contributions totalling \$3,500 will be needed from the faculty and staff. More than half of the Association's funds come from sources other than member churches.

Chairman Charles W. Rutschky, associate professor of entomology, has announced that captains are now being selected for canvassing of the five areas of the University Park campus.

➤ **SYMPHONY:** The program of the National Symphony Orchestra, featured on the Artists Series on Sunday, Oct. 9, will include Dvorak's "Carnaval Overture"; Bruch's "Concerto No. 1 in G Minor for Violin and Orchestra"; and Prokofiev's "Symphony No. 5 in B-Flat Major." Featured in the Bruch number will be Jaime Laredo, violinist.

The program will be held in Recreation Building at 8 p.m. Tickets were on sale this week at the HUB desk.

Leon Fleisher, noted pianist, will be the next artist to appear in the series. His program will be given on Wednesday, Oct. 19 in Schwab Auditorium. Tickets for this presentation will go on sale to the public on Oct. 17 at the HUB desk.

➤ **SIGMA XI:** A lecture blending science and art, titled "Form, Color and Stimulation Among Smaller Terrestrial Organisms," will be presented by Dr. Leonard G. Worley, professor of biology, Brooklyn College, as the first Sigma Xi lecture of the year.

The lecture is open to the public and will be given on Oct. 14 at 7:30 p.m. in the Mineral Industries Auditorium.

Dr. Worley and his wife systematically surveyed the rich biotic environment of Barro Colorado Island, Panama Canal Zone, in 1959 to record, in color, specimens of animal life which are rarely observed and difficult to see. Some 3,000 slides were made and from this collection has been selected those which illustrate the theme of the lecture.

A distinguished teacher, Dr. Worley has as his special subject area Cytoplasmic Cytology. He has emphasized scientific photography for teaching and research.

➤ **FELLOWSHIPS:** In addition to the National Science Foundation Cooperative Fellowship Program announced in last week's Faculty Bulletin, the Foundation is carrying on its old regular Graduate Fellowship Program in which the student applies directly to NSF and selects his own graduate school.

About 1,000 fellowships will be awarded nationally in this program. Announcements will be out this month and applications are due in Washington, D. C. by January 6.

First stipends in this program are \$1,800. Married men with children benefit especially under this program since there is a dependency allowance of \$500 per dependent.

Senate Minutes

Meeting of September 29, 1960

The University Senate met at 4:15 p.m. on Thursday, September 29, 1960, in room 121, Sparks Building with Vice President L. E. Dennis presiding.

The secretary read the following correction to the minutes of the June 2, 1960 meeting as printed in the Faculty Bulletin for June 10 and 17. Add to the third paragraph on page 1035 of the official minutes the following:

Professor VanderMeer also expressed appreciation for the very important contributions made by members of the faculties of other Colleges in the University in the development of the curriculum in Elementary Education. He emphasized the fact that such participation is in keeping with both the mission of the College of Education whose faculties institute, coordinate, and administer teacher education programs and with the mission of the faculties of other departments in the University who participate in curriculum planning and who teach most of the courses that make up the curriculums in teacher education.

The minutes as corrected were approved. Two hundred two senators signed the roll.

Mr. Dennis stated that H. J. O'Brien had been appointed to serve as parliamentarian for the fall semester, 1960 while R. T. Oliver is on leave. Due to a previous commitment however, Mr. O'Brien was unable to attend the first meeting and R. E. Dunham was acting as parliamentarian.

COMMUNICATIONS FROM UNIVERSITY OFFICIALS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Elton Atwater (M. N. McGeary), A. H. Brayfield (Sidney Siegel), G. W. Brindley (W. O. Williamson), J. D. McAulay (J. V. Alessandro), P. W. Fletcher (W. E. White), D. H. Ford (J. D. Ashby), Leon Gorlow (D. N. Jackson), E. L. Keller (T. S. Goas), and M. A. Williamson (J. W. Breneman). R. D. Mathieu will serve as a substitute for J. A. Fox for the Fall Semester while Mr. Fox is acting head of the Department of Aeronautical Engineering.

An excerpt was read from the Board of Trustees meeting approving, effective July 1, 1960, the curriculum changes in the College of Agriculture as recommended by the Faculty of the College of Agriculture and the University Senate.

New Senators

In the College of Education, A. M. Brewer, Head of the Department of Elementary Education and E. L. Mattil, Head of the Department of Art Education.

In the College of the Liberal Arts, H. P. Zelko, Acting Head of the Department of Speech while R. T. Oliver is on leave during the Fall Semester, 1960. G. S. Zoretich as Director of the School of the Arts. R. D. Ayoub elected to serve for J. B. Bartoo, 1960-62, during Mr. Bartoo's tenure as Acting Head of the Department of Mathematics or until June 30, 1962, whichever is the earlier date. A. O. Lewis elected to replace T. F. Wagner, 1960-63, who is now ex officio as head of the Department of Slavic Languages.

Mr. Dennis called on the deans of the several Colleges and the Graduate School and H. A. Cutler to introduce the new senators from the Colleges and the Graduate School and the R.O.T.C. Departments.

A letter from R. G. Bernreuter asking the Senate to extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings

of the Senate during the academic year 1960-61, and to grant them the privilege of the floor but not the right to vote was read.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A". This report was in two sections, the first being routine actions for changes made necessary because of discrepancies found while reading the catalog during the summer; the second being automatic actions in accordance with Senate action May 1, 1958 regarding courses which have not been taught over a period of five years. Mr. Shelley asked that item one be changed to add Agricultural Education or Education elective, two credits instead of Elective, two credits. He then moved that the report be adopted as amended. The motion was seconded. F. B. Krauss moved that Latin 46 be deleted from the list of automatically dropped courses and stated that 43 students had indicated a desire to schedule this course in the Spring Semester, 1961. The motion to delete Latin 46 was seconded and passed. The motion to adopt the report with two amendments was passed. The complete report is on file in the office of the secretary.

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "B". The report contained the following recommendation:

The Senate Committee on Student Affairs recommends the elimination of all of the "K" rules, which relate to class attendance.

Mr. Newman stated that the elimination of the "K" rules would make it a matter of the instructor and the student to decide whether the absence was bonafide and whether the work could be made up. He then moved adoption of the recommendation. The motion was seconded. E. B. McCoy spoke against the motion stating that it would greatly affect inter-collegiate athletics.

J. M. Anderson asked whether it was advisable to have a statement of policy on class attendance and to amend the motion to retain K-1 and K-2 as such a policy. Mr. Newman said the Committee had discussed this and felt that the "M" rules take care of this, as they give power to the instructor to grade a student. He felt that if K-1 were retained a new set of rules would be developed. After discussion by Messrs. Jordan, Aston, Livingston, Powers, Simes, Rackley, Waters and Miss Lipp, Mr. Waters moved to retain Rules K-1 and K-2, of the Regulations for Undergraduate students. The motion was seconded. By a showing of hands the motion was lost (79 for, 104 against). In the discussion on the original motion questions were raised by Jos. Marin and C. F. Hager. The motion to delete the "K" rules was passed. Mr. Dennis stated that this action by the Senate placed upon the instructor the responsibility of informing his classes concerning his attitude toward class attendance at the beginning of each course. W. G. Mather asked when the deletion of the "K" rules would become effective and Mr. Newman said it was the understanding of the Committee that it would be "if and when adopted." The Chair ruled the effective date would be after the approval of the minutes at the November 3 meeting of the Senate. The complete report is on file in the office of the secretary.

E. B. VanOrmer raised a question concerning Rules X-2 and Y-5. In his opinion they duplicate certain of the "K" rules. Mr. Dennis stated that it is assumed that the Rules Committee would need to reappraise all the rules to see which ones might be made obsolete by this action, and that the

Manual for Instructors would be changed accordingly.

NEW BUSINESS

Mr. Newman moved that the Senate extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1960-61, and to grant them the privilege of the floor but not the right to vote. The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

E. B. VanOrmer, Assistant Dean of the Graduate School, made an announcement regarding the Cooperative Graduate Fellowship applications for 1961-62. He asked that department heads and advisors of outstanding seniors and graduate students eligible to apply for these fellowships, call to the attention of the students the fact that the application materials are now available for these fellowships. The complete application materials must be in the Office of the Dean of the Graduate School of the student's choice by November 4, 1960. In order to save work for both students and staff, students coming to the Graduate School Office are asked to bring a statement from the head of their department to the effect that the department is willing to support their application. Since the application forms are quite detailed, students should be urged to obtain them and start completing them at once. He stated that NSF will again offer Summer Fellowships to students who have been teaching assistants for one academic year. An instructor who is a graduate student is also eligible. Application materials are available at the Graduate School office and must be received in complete form by December 9, 1960. It was pointed out that an eligible student might apply for the Summer Fellowship for 1961 and also for a Cooperative Fellowship to start September 1961 for 12 months tenure. NSF is still operating its old regular graduate fellowship program. Announcements for it will be out in October and applications will be due in Washington by January 6, 1961.

Mr. Dennis made several announcements on behalf of President Walker, who was today in Harrisburg meeting with his colleagues from Pitt, Penn., and Temple on problems facing higher education in the Commonwealth:

1. C. H. Boehm, Superintendent of Public Instruction, has appointed a liaison committee between Penn State and the State Colleges with President Walker as chairman of the Penn State representatives.
2. Both the University Park Campus and the Altoona Campus were visited this week by members of the House and Senate Committees on Education.
3. During the summer while Senate was not in session President Walker testified before the Governor's Commission task force on higher education, first as President of the Pennsylvania Association of Colleges and Universities for this year, and second as President of Penn State.
4. Next week the President will have Penn State budget hearings with members of the Governor's staff.
5. The four term plan for the reorganization of the calendar will be presented to the Board of Trustees tomorrow, September 30, 1960. The faculty will be informed concerning the program immediately thereafter.
6. The Curtiss-Wright Corporation has given to the University, subject to acceptance by the Board of Trustees, a Nuclear

(Continued on page four)

Personnel matters

Dr. Elizabeth K. Diao, graduate of West China Union University and a native of China, has been appointed assistant professor of foods and nutrition. She received a master of science degree in nutrition from the University of Illinois in 1951 and doctor of philosophy degree from Cornell University in 1956.

Wayne K. Murphey, a 1952 graduate of Penn State, has been named assistant professor of wood utilization. He received the master of science degree also from Penn State and has completed the residence requirements for the doctorate at the University of Michigan. He served as technical engineer in the wood preservation division of Koppers Co., Inc., and four years in research in forest products at the Ohio Agricultural Experiment Station.

Dr. Sanford D. Shemnitz, formerly instructor of wildlife management at the University of Maine, has been appointed instructor in forestry at the University of Maine. He holds bachelor's degrees from the University of Wisconsin and the University of Michigan, master of science from the University of Florida, and doctor of philosophy from Oklahoma State University.

Dr. Frederick W. Lampe, research specialist of the Humble Oil and Refining Co., has been named associate professor of chemistry. He received the bachelor of science degree from Michigan State in 1950, and master of science and doctor of philosophy degrees from Columbia University. He has been with Humble since 1953.

(Continued on page four)

CALENDAR

Friday, Oct. 7

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. T. E. Sterling, University patent counsel, on "Legal Protection for Your Intellectual Ideas."

Saturday, Oct. 8

Soccer, versus Syracuse, 10 a.m.

Sunday, Oct. 9

Protestant Service of Worship, Helen Eak-in Eisenhower Chapel, 9 a.m.

Roman Catholic Mass, Schwab Auditorium, 9 a.m.

Chapel Service, Schwab Auditorium, 10:55 a.m. The Rev. Preston N. Williams, assistant University chaplain.

Artists Series program by The National Symphony Orchestra, 8 p.m., Recreation Building.

Liberal Arts Faculty Tea, HUB Lounge, 3 to 5 p.m.

Monday, Oct. 10

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Ruth Ayres, head of the department of clothing and textiles, on "Impressions of Pakistan in Metamorphosis."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. H. J. Read, professor of physical metallurgy, on "High Temperature Coatings."

Faculty Women's Club 12th annual fall reception, 7:30 to 9:30 p.m., HUB ballroom.

Tuesday, Oct. 11

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. Neal Riemer, associate professor of political science, on "The Public Philosophy."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Gene Dresselhaus, Lincoln Laboratory, Massachusetts Institute of Technology, on "Microwave Evidence for the Electronic Structure of Conductors and Superconductors."

Agronomy Seminar, 4 p.m., Room 111 Tyson. Leland A. Bull, assistant director of agricultural extension.

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. John H. Dalton, University of Maryland, on "Economic Problems of the Congo."

Wednesday, Oct. 12

Chess Club meeting, 7 p.m., HUB card room.

Forestry Convocation, 11 a.m., Room 121

or the director of his Commonwealth Campus.

K-2 — A student who registers for a course and then ceases to attend class without officially dropping it shall be given a grade of F in the course and shall be subject to discipline.

K-3 — For an authorized athletic trip, the Senate Committee on Athletics or the director of the Commonwealth Campus shall furnish an official excuse for each student permitted to make the trip.

K-4 — Refers to official excuses for inspection trips.

K-5 — Refers to student organization trips.

K-6 — Refers to excuses on the basis of hospital confinement.

K-7 — Refers to excuses for personal emergencies.

K-8 — An official excuse permits the student to make up any required work or examinations without penalty. Such excuses must be submitted to each instructor whose

Sparks. John Patrick Guckin, University of Alaska, in an illustrated lecture on Alaska.

Social Science Research Center Luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. Dale Harris, professor of psychology, on "Interdisciplinary Cooperation in Research — Pipe Dream or Possibility."

Meeting of the Central Pennsylvania Section, American Society of Mechanical Engineers, 7:30 p.m., Room 112 Buckhout. Richard O. Byers, associate professor of journalism, on "How to Make Money in Stocks."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Philip Young, professor of American literature, on "The Story of the Missing Man: Peter Rugg."

Thursday, Oct. 13

Biological Sciences Lecture Series, 4:15 p.m., Room 112 Buckhout. Dr. William H. Klein, chief of the division of radiation and organisms of the Smithsonian Institute, on "Photocontrol and Development in Plants."

Bacteriology Seminar, 12 noon, 206 Patterson. Dr. Roy Repaske, National Institute of Allergy and Infectious Diseases, on "Enzymatic Oxidation of Molecular Hydrogen."

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

Meeting of the faculty of the College of Home Economics, 4:15 p.m., Room 209 Home Economics South.

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 111 Boucke. Dr. George Buchi, professor of chemistry, M.I.T., on "Structure of Natural Products."

Friday, Oct. 14

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. R. W. Moon-ey, Sylvania Electric Products, Inc., on "Oxygen-Dominated Phosphors — A Survey of Material and Techniques."

Meeting of the faculty of the College of Agriculture, 4:15 p.m., Room 109 Armsby.

Fluid Mechanics Seminar, 4:10 p.m., Hydraulics Laboratory. F. L. Blue, Jr., and Samuel Shulits, in a demonstration of the 1:50 model of the Moosic Flood Control project.

Lecture sponsored by the Society of Sigma Xi, 7:30 p.m., Mineral Industries Auditorium. Dr. Leonard Worley, department of biology, Brooklyn College, on "Form, Color, and Stimulation Among Smaller Terrestrial Organisms."

Opening night of the Center Stage production of "Romanoff and Juliet." Also Saturday night and five succeeding weekends.

Attendance rules

The University Senate, on Thursday, Sept. 29, took action to abolish certain rules pertaining to class attendance. Effective date of the action will be Nov. 3, when the minutes of the Sept. 29 meeting are approved.

The rules in question are the "K-Rules," which are given below for the information of the entire faculty:

K-1 — A student should attend every class for which he is scheduled, and shall be held responsible for all work covered in the courses taken. A student whose irregularity in attendance causes him, in the judgment of the instructor, to become deficient in any course may, after due warning, be excluded from class by the instructor after consultation with the head of the department in charge of the course and the student's dean

classes the student missed during the absence. For all other absences the instructor shall have final authority in marking absences excused or unexcused.

K-9 — As a precaution against unfortunate incidents that might result from the unreported illness or extended absence of a student, the instructor is required to report such cases to the student's dean. . . .

Elimination of these rules will affect other rules of the Senate, especially in relation to Grades, Athletic Competition, and Student Activities. The Senate Rules Committee will study the impact of the abolishment of the "K-Rules" on these other sections.

Action on the abolishment of the K-Rules was recommended by the Senate Committee on Student Affairs, headed by Dr. Monroe Newman, head of the department of economics.

Personnel —

(Continued from page three)

Other recent appointments include the following:

AGRICULTURE

Bishop, William R., assistant professor of zoology.

Helmberger, Peter, assistant professor of agricultural economics.

Little, Richard F., assistant county agriculture agent.

Losensky, B. John, instructor in forestry, Mont Alto.

Payne, Irene R., assistant professor of ag biochem.

BUSINESS ADMINISTRATION

Greenlaw, Paul S., assistant professor of management.

CHEMISTRY AND PHYSICS

Hetrick, Samuel S., research assistant in petroleum chemistry.

Onopchenko, Anatoli, research assistant in petroleum chemistry.

EDUCATION

Edmonston, Paul, assistant professor of art education.

ENGINEERING AND ARCHITECTURE

Aldrich, Douglas H., IBM visiting lecturer in electrical engineering.

Bledsoe, Woodrow W., visiting professor of computer science.

Foderaro, Anthony H., associate professor of nuclear engineering.

Holliday, Leonard L., research assistant in engineering research.

Kakimoto, Harutoshi, research associate in mechanical engineering.

Lugo-Faria, Elpidio, research assistant in engineering research.

Murphy, R. Sage, research assistant in civil engineering.

Somayajulu, Y. V., visiting assistant professor in electrical engineering.

HOME ECONOMICS

Diao, Elizabeth K., assistant professor of foods and nutrition.

Gordon, Joan, professor of foods and nutrition.

Harsanyi, Audrey B., instructor in home economics education.

Pearl, Eleanor Jane, assistant extension home economist.

LIBERAL ARTS

Costanzo, Angelo V., instructor in English.

Gray, Marlene C., instructor in English and speech.

Mochling, Henry W., instructor in English and speech.

Parks, Kae I., instructor in English.

Reynolds, George Hollis, instructor in theatre arts.

Tuckman, Claire R., instructor in mathematics (Ogontz).

Wells, Gladys S., instructor in English.

MINERAL INDUSTRIES

Garrigues, Claude J., visiting scientist in ceramic technology.

Hamilton, David L., visiting research associate in geophysics and geochemistry.

Hoke, John H., assistant professor of metallurgy.

Taubeneck, William H., visiting research associate in mineralogy.

PHYSICAL EDUCATION

Gaumer, Diane P., assistant professor of physical education.

ADMINISTRATION

Hisatsune, Kimi, cataloger in the Library.

Saylor, Robert H., associate dean of student affairs and assistant professor of education.

LEAVES

Carroll Lee Howes, assistant professor of agricultural extension, has been granted an additional leave of absence to continue his graduate studies at the University of Wisconsin, until Feb. 1, 1961.

Georg E. Knausenberger, associate professor of engineering research at the Ordnance Lab, has been granted a second year's leave to permit him to continue as technical adviser to the commander of the Office of Scientific Research of the Air Research and Development Command of the U. S. Air Force. He is stationed at Oborpfeffanhofen, Germany.

Francis R. Nitchie, Jr., associate professor of engineering research at the Ordnance Research Lab, who has been participating in the Space Telescope Program of the Smithsonian Institution, has been granted a year's leave of absence to continue with this work. He is an engineer administrator at the Astrophysical Observatory, Cambridge, Mass.

Carl C. Faith, associate professor of mathematics, will be on leave at the Institute for Advanced Study at Princeton for the year. He has been awarded a National Science Foundation post-doctoral fellowship for research on the theory of rings in the area of abstract algebra.

Senate —

(Continued from page two)

Reactor whose value is in excess of two million dollars.

7. The University has received a request from the Department of Defense on behalf of NATO to consider assuming the management of an underwater laboratory in Italy.

8. A proposal to change the fiscal year to have it begin June 1 will be presented to the Board of Trustees tomorrow.

9. Conversations between the University and Jefferson Medical College concerning expanded programs of cooperation have been started.

10. At the Trustees meeting tomorrow the Board will be asked to approve the granting of an honors diploma and to terminate the advanced technical degrees in the College of Mineral Industries.

In addition Mr. Dennis pointed out that with the elimination of the "K" rules the University has no stated policy regarding class attendance. He suggested that the Senate Committee on Educational Policy consider a statement to the effect that class attendance is not required.

The next regular meeting of the Senate will be on Thursday, November 3, 1960. The agenda will be distributed on October 20, 1960.

The meeting adjourned at 5:30 p.m.

Robert G. Bernreuter,
Secretary

Calendar —

(Continued from page one)

He will want to study how the 75-minute, ten-week schedule will affect his own lectures, laboratories, and examinations.

"A second problem he will face is his relationship to the other members of the department, especially in regard to vacations and research work.

"A third area of possible concern for the individual," Dennis pointed out, "is that of the realignment of the curriculum for students in his major field. The matter of sequence of courses is one of the knotty problems to be faced."

faculty BULLETIN

Vol. 48, No. 14

Oct. 7, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

Faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Records management

THE first step in "Operation Records Management" will be taken today as 22 faculty and staff members begin the task of making an inventory of the mountain of paper records in University files throughout the campus.

Entirely new to Penn State but a common practice in business and industry, the program is described as an organized method for maintaining the proper flow of paper through the University so that important papers are stored to be easily found when necessary and unimportant papers are destroyed when they are no longer of use.

Goal of the program is the saving of time, space, and money. It is pointed out, for example, that during the last biennium the University found it necessary to purchase 1800 new file drawers.

"Not only can there be a saving if we don't need to purchase so many files," says A. E. Diem, vice-president for business affairs, "but we might also find a saving if we reconsider the type of storage space provided. Some materials do not require high cost storage and simple shelves will suffice. The two-drawer file cabinet costs \$7.58 per cubic foot of space but movable shelving, which will do the job in many cases, costs only 59¢ per cubic foot."

The records which will be inventoried, explains Diem, include any paper, form, book, photograph, map, drawing, or other document or copy which is retained as evidence of an activity or because of the information contained.

Personal records, it is emphasized,

(Continued on page four)

NEWS IN BRIEF

► **BLOUGH:** The Graduate Lecture Series will be opened this year by Roy Blough, professor of international business, Columbia University, on Tuesday, Oct. 18 at 8 p.m. in Room 121 Sparks.

He will speak on "Nationalism and an Organized World Economy."

Blough has been at various times director of the Department of Economic Affairs of the United Nations; member of the Council of Economic Advisers to the President; professor of economics and political science at the University of Chicago, and director of tax research, United States Treasury.

Other talks in the current series will be given by archaeologist Donald B. Hardin on Friday, Nov. 4 on the subject "Roman London" and by psychologist Roger Barker on Tuesday, Nov. 15, on "The Psychological Ecology of Children in England and America."

A lecture scheduled for Thursday, Nov. 3, has been cancelled due to the illness of the speaker.

► **LAW TEST:** The Law School Admission Test required of applicants for admission to a number of leading American law schools will be given at the University on Nov. 12. Other dates for the test are Feb. 18, April 15, and Aug. 5.

Information concerning the test is available at the office of Dr. R. Wallace Brewster, professor of political science. Completed applications for the tests must be filed not later than two weeks prior to the test date.

► **AIR TRAVEL:** Air travel arrangements should now be made by faculty members directly with either of the two local travel agencies rather than through the University Transportation Division. Information, reservations, and tickets should be obtained through these agencies.

However, the Division will continue to arrange schedules and reservations for rail and bus travel and also hotel accommodations. Tickets for train and bus travel should be purchased at the appropriate stations.

► **CONSTRUCTION:** Recent announcements concerning construction developments include the following:

Preliminary plans for an addition to the Research Reactor Building and the construction of a building to house the Van de Graaff positive ion accelerator and the linear accelerator have been approved by the Board of Trustees. Architects will proceed with detailed plans and specifications.

Construction of a barn to be used in the mastitis research program will get underway at the Veterinary Re-

search Center since plans have been approved. Mastitis costs Pennsylvania farmers \$15 million annually and the Legislature made a special appropriation of \$50,000 for the biennium to conduct research on the disease.

► **STUDENT AID:** An Office of Student Aid has been organized to provide financial advice and assistance to all students and to handle scholarships, loans, and part-time employment.

Ralph N. Kreckler, formerly assistant to the director of the Division of Counseling, has been named director of the office.

The various functions to be performed by the new office have been scattered through the offices of the University Placement Service, the Coordinator of Scholarships, the Dean of Men, and the Dean of Women.

► **CONCERT:** Baritone Raymond Brown, associate professor of music, accompanied by pianist Barry Brinsmaid, assistant professor of music, will present a song recital on Sunday, Oct. 16 at 4 p.m. in Schwab Auditorium.

The program, which has become an annual affair, will this year open with five songs by Henry Purcell, followed by a solo cantata by Heinrich Schutz, "Fili mi, Absalom," with an accompaniment by four student trombonists. The first half of the concert will conclude with Beethoven's "Andeiken" and "Adelaide."

Robert Schumann's cycle of 16 songs set to poems by Heinrich Heine, "Dichterliebe," will comprise the second half of the program.

► **SMORGASBORD:** Members of the Penn State Junior Hotel Greeters are sponsoring a "Swedish Delight Smorgasbord" in the Maple Room of Home Economics Building on Sunday, October 23, 4:30-6:30 p.m. Tickets are \$1.75 and may be picked up in the Hotel and Institution Administration Office, Room 4 by Wednesday, October 19.

► **CHAIRMAN:** Dr. Kinsley R. Smith, professor of psychology, is the current chairman of the Faculty-Staff Traffic Review Committee. Also members of the committee are Harold P. Zelko, professor of speech, and Reed Ferguson, director of University relations.

The committee has the responsibility of hearing faculty and staff members who have been charged with a traffic or parking violation. Faculty and staff members may request a hearing within two weeks of the date appearing on the statement of the fine, by writing to the chairman, 304 Old Main.

Items of interest

Books

BATJER, MARGARET Q., foods and nutrition, the fifth edition of the book, "Food for the Family" published by J. B. Lippincott Co. in collaboration with Jennie S. Wilmot.

Lectures and Talks

EAST, MARJORIE, home economics education, a talk on "Pictures and Your Profession" at a meeting of the Nova Scotia Home Economics Association at Sydney, Nova Scotia, on Oct. 14.

FISHER, KATHERINE H., foods and nutrition, with Clarice G. Taylor, hotel and institution administration, a discussion on "The Nutrient Wheel" at the annual Fall Conference of National Industrial Cafeteria Managers Association, Oct. 6.

HARNETT, A. L., physical education, a talk before the 1960 annual meeting of the Pennsylvania division, American Cancer Society at Bedford Springs, on "Responsibilities of Board Members."

HOLDERMAN, K. L., Commonwealth Campuses, opening convocation message at Wyomissing Campus.

JORDAN, JOSEPH, chemistry, a talk before the chemistry department seminar at the University of Pittsburgh, on "Enthalpy Titrations and Thermochemistry in Molten Salts."

THOMPSON, S. E., hotel and institution administration, two talks in Buffalo before the Executive Development Program of the National Restaurant Association, on "Principles of Executive Leadership" and "Principles of Personal Management."

ZELKO, H. P., speech, conducting a one-day program on "Communications in Management" at the Advanced Logistics Course at Wright-Patterson Air Force Base.

Elected and Appointed

ALBRIGHT, G. H., architectural engineering, named to a special committee of the American Council on Education to prepare a report concerning higher education and civil defense.

CHAPMAN, H. H., JR., Romance languages, named to the Regional Selection Committee IV of the Woodrow Wilson National Fellowship Foundation for this year.

EAST, MARJORIE, home economics education, elected to the board of directors of Consumers Union, a non-profit organization.

FERGUSON, J. H., Institute of Public Administration, elected chairman of the Public Service Institute.

MCCORD, R. E., Continuing Education, named to the Committee on Relations with Government of the American Society for Engineering Education.

SHULITS, SAM, civil engineering, elected honorary and corresponding member of the German Association for Water Management and Water Power, Berlin, Germany.

SNYDER, W. U., psychology, elected chairman of a new Board of Examiners for certification of psychologists engaging in private practice in Pennsylvania.

WINTER, W. P., industrial engineering, appointed to a committee of the American Foundry Society to direct the rewriting of promotional brochures.

Articles and Papers

AMBROSUS, E. E., mechanical engineering, a code titled, "Measurement of Petroleum Liquid Hydrocarbons by Positive Displacement Meter," Standard 1101 of the American Petroleum Institute.

DELAHY, WALTER J., educational administration, an article, "Pennsylvania School Study Council Contributes to the Improvement of Public Education" in the September issue of The Bulletin of the

Pennsylvania State School Directors Association.

FINCH, H. A., an article, "Confirming Power of Observations Metricized for Decisions Among Hypotheses," Part I, Philosophy of Science, July, 1960.

— A paper, "Confirming Power of Observations Defined by Bayes Theorem and a Measure of Choice Uncertainty," at the 1960 International Congress for Logic, Methodology, and Philosophy of Science at Stanford, Calif.

— A talk, "Love and the Philosophers" before the Auxiliary of Blair Medical Society, Altoona.

FROKE, M. D., journalism, a paper on "Newsroom Personnel Problems" at the meeting of the Radio-Television News Directors Association on Oct. 6, at Montreal, Canada.

GREENLAW, P. S., management, co-author of an article, "The Human Factor in Business Games," in Business Horizons, publication of Indiana University.

HOSLER, C. L., meteorology, a paper at the discussions of the Faraday Society, at Bristol University, England, on the subject, "The Aggregation of Small Ice Crystals."

CALENDAR

Friday, Oct. 14

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. R. W. Moon, Sylvania Electric Products, Inc., on "Oxygen-Dominated Phosphors — A Survey of Material and Techniques."

Meeting of the faculty of the College of Agriculture, 4:15 p.m., Room 109 Armsby.

Fluid Mechanics Seminar, 4:10 p.m., Hydraulics Laboratory. F. L. Blue, Jr., and Samuel Shulits, in a demonstration of the 1:50 model of the Moosic Flood Control project.

Lecture sponsored by the Society of Sigma Xi, 7:30 p.m., Mineral Industries Auditorium. Dr. Leonard Worley, department of biology, Brooklyn College, on "Form, Color, and Stimulation Among Smaller Terrestrial Organisms."

Opening night of the Center Stage production of "Romanoff and Juliet." Also Saturday night and five succeeding weekends.

Saturday, Oct. 15

Center Stage production of "Romanoff and Juliet," 8 p.m., Center Stage.

Soccer, versus Colgate, 10 a.m.

Sunday, Oct. 16

Protestant Service of Worship, Helen Eakin Eisenhower Chapel, 9 a.m.

Roman Catholic Mass, Schwab Auditorium, 9 a.m.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Recital by Raymond Brown, baritone, with Barry Brinsmaid, pianist, 4 p.m., Schwab Auditorium.

Penn State Riding Club annual picnic, 4 p.m., Robert Delafield farm.

Monday, Oct. 17

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. George Vold, distinguished visiting professor of sociology, on "National Characteristics of Criminality."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. E. W. Mueller, research professor of physics, on "Atomic Structure of Refractory Materials."

Meeting of faculty of College of Education, 4:15 p.m., HUB Assembly Room.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Showing of last year's prize winning slides and selection of "Picture of the Year."

HUTTON, H. K., education, an article, "Memories of Archdeacon Dobson," in the Sept. 22 issue of the Tilbury (Ontario) Times, on the occasion of the death of Ven. Thomas Dobson, for 63 years Anglican priest in the same parish.

KAUFMAN, J. J., economics, a paper on the trends in the railroad industry in the handling of the technological displacement of railroad workers, at a conference of railroad labor officials sponsored by the New York State School of Industrial and Labor Relations, Cornell University.

MILLER, E. W., geography, a paper titled "Changing Patterns of the Mineral Economy in the United States, 1939-1954," at the International Geographical Congress in Stockholm, Sweden.

MOORE, F. B., engineering, a paper at the 15th Annual Instrument Society of America Conference on the subject, "A Program to Establish Uniform Concepts of the Technician's Role."

MORGAN, WINONA, child development and family relationships, an article on "Implications of the White House Conference for Home Economists" in the September issue of the Journal of Home Economics.

Meteorology Seminar, 1:15 p.m., Room 121 Mineral Industries. James Giraytys, graduate student in meteorology, on "The Tiros-I Meteorological Satellite."

Tuesday, Oct. 18

Graduate Lecture Series, 8 p.m., Room 121 Sparks. Roy Blough, Columbia University, on "Nationalism and an Organized World Economy."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Paul Kisluk, research department, Bell Telephone Labs, on "The Reflection of Slow Electrons from Metal Crystal Surfaces."

Agronomy Seminar, 4 p.m., Room 111 Tyson. R. E. Carter, county agricultural agent, and George G. Connor, Pennsylvania Farm Bureau Coop.

Wednesday, Oct. 19

Artists Series program by Leon Fleisher, pianist, 8:30 p.m., Schwab Auditorium.

Chess Club meeting, 7 p.m., HUB cardroom.

Psychology Colloquium, 12 noon, dining room "A", Hetzel Union Building. Dr. Helen I. Snyder, assistant professor of psychology, on "Certain Aspects of Distortion in Interpersonal Perception."

Sociology Club meeting, 7 p.m., Room 212 Hetzel Union Building. Dr. W. T. Sanders, assistant professor of anthropology, on "Penn State Field Trip to the Valley of Mexico."

Friday, Oct. 21

Center Stage production of "Romanoff and Juliet," 8 p.m.

English Colloquium, 3:30 p.m., HUB Auditorium. Brice Harris, professor of English, on "Love and Death and the English Teacher."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Howard A. Robinson, Adelphi College, on "Physical Properties and Structure of Silica for Simple Silicate Glasses."

NEXT MONTH

Oct. 22 — Interlandia Folk Festival

Oct. 27-29 — Thespians' Show

Oct. 30 — Artists Series, "J. B."

Nov. 3 — Graduate Lecture Series. Donald B. Hardin

Nov. 10 — Artists Series. Fischer-Dieskau

Nov. 13 — Organ recital. George Ceiga

Nov. 15 — Graduate Lecture Series. Roger Barker

Nov. 20 — Artists Series. Marcel Marceau

Nov. 22 — Thanksgiving Recess begins



New faculty orientation day

ABOUT 85 new members of the faculty attended an orientation program in the HUB on Saturday, Sept. 24. The program, which was roundly approved by the newcomers, sought to answer many questions they had through a series of talks by members of the administration and through a question-answer period. Dr. Howard Cutler, assistant to the vice-president for academic affairs, arranged the program. An evaluation made by those present will be used in planning future orientation days.

Personnel matters

Dr. Orville F. Tuttle has resigned as dean of the College of Mineral Industries because of ill health but will continue as professor of geochemistry.

David R. Mitchell, associate dean, has been named acting dean, effective Nov. 1.

Dr. Eugene W. White, a member of the University of Miami faculty since 1949, has been named associate professor of speech. A native of Denver, Colo., he completed undergraduate work at Oregon State College, and master of arts in speech and doctor of philosophy degrees at Louisiana State University. He has taught at Western Reserve, Louisiana State, and Miami.

Dr. Regis J. Leonard, a graduate of Duquesne University and a member of the faculty since 1946, has been named professor of counseling in education. He received both master of education and doctor of philosophy degrees from the University of Pittsburgh.

Other recent appointments include:

AGRICULTURE

Fuller, Theodore F., instructor in agricultural economies.

Merritt, Thomas L., associate professor of animal husbandry.

Wilkinson, Stanley R., assistant professor in soil technology.

BUSINESS ADMINISTRATION

Sussman, Marvin R., assistant professor of finance.

CHEMISTRY AND PHYSICS

Bauer, Jerome L., Jr., research assistant in chemical engineering.

Chubbuck, James B., assistant professor of chemistry (Altoona).

Foote, Nathan M., visiting assistant professor in physics.

Futama, Hideo, research associate in physics.

Makita, Yasuhara, research assistant in physics.

Walsh, William H., research assistant in petroleum chemistry.

EDUCATION

Edmonston, Paul, assistant professor of art education.

Lantz, Ralph Gene, assistant professor of secondary education.

Sherk, H. Dennis, instructor in educational services.

ENGINEERING AND ARCHITECTURE

Beam, John P., research assistant in engineering research.

Boyer, Lester L., Jr., research assistant in architecture.

Brown, Paul S., instructor in engineering.

Grube, Richard L., instructor in architecture.

Guzzi, Louis A., research assistant in engineering experiment.

Kondek, John Thomas, instructor in engineering (New Kensington).

Kormanik, John Mike, instructor in engineering.

LeDonne, Joseph S., instructor in engineering.

McMahon, John F., research assistant in engineering research.

Parrish, Edwin Joseph, instructor in engineering (Altoona).

Sullivan, Joseph A., instructor in engineering.

Warfel, Edward C., research assistant in engineering.

LIBERAL ARTS

Boron, Leo Francis, instructor in mathematics.

Bouwsmma, Ward David, assistant professor of mathematics.

Charra, Alice, instructor in Romance languages.

Gross, Charles J., Jr., assistant professor of classical languages.

Jordan, Sidney, instructor in speech.

Koontz, Donald E., instructor in mathematics.

Mast, James H., instructor in history.

Pinto, Lucille B., instructor in German.

Reifsnnyder, David F., instructor in speech.

Savage, Mary Ellen, instructor in speech.

Sheridan, Margaret G., instructor in English.

Shoemaker, Kenneth W., Jr., instructor in speech.

Simboli, David R., assistant professor of English.

Skudrzyk, Liselotte, instructor in German.

Thomas, Ronald S., instructor in English (Behrend).

MINERAL INDUSTRIES

Anderson, Gregor M., research associate in geochemistry.

Thompson, Richard R., research assistant in geology.

PHYSICAL EDUCATION

Gallagher, James D., instructor in physical education.

ADMINISTRATION

Funk, Georgie Ann, research assistant in DARS.

Heimer, Ralph T., research assistant in DARS.

Quackenbush, John F., research assistant in DARS.

LEAVES

Walter O. Gordon, professor of mathematics, will spend the Spring Semester in England and Scotland visiting universities and conferring with mathematicians while on leave.

Eugene Ackerman, professor of biophysics, will do research in bioacoustics and enzyme kinetics at the Mayo Clinic, Rochester, Minn., during the current year while on leave.

John S. Bowman, professor of English composition, plans to make a study of the teaching of freshman English in colleges and universities throughout the country while on leave during the Spring semester.

John Gibbons, professor of physics, has been granted a six-month leave of absence to do research on plasma physics and on electro-magnetic propagation in the ionosphere. He will also visit several physics laboratories in the United States.

Records —

(Continued from page one)

are not to be considered in this program. A personal record is considered to be any record that an individual staff member would feel free to take with him should he leave university employment.

Inventorying, the step initiated today, is one of five in the entire program. The others are described as "analyzing the inventory"; "establishing retention schedules"; "recommending storage methods"; and "maintaining the program."

"The purpose of inventorying," explains Ray T. Fortunato, who has been designated by Diem to coordinate the program, "is to learn what records are being kept. Before any decisions can be made relative to the other steps in the program it is essential to know what we now have."

Staff members who are records man-

agement representatives include the following:

Warren Haffner, assistant to the registrar; Robert H. Lauck, assistant in personnel and accounting, College of Agriculture; David H. McKinley, associate dean of the College of Business Administration; A. H. Holtzinger, director, Chemistry Laboratories; Paul Benner, business manager, Continuing Education; Walter S. Hiester, director of accounting operations; MacDonald Heebner, administrative assistant in the College of Engineering and Architecture.

La Vern Troup, cost accountant in Food Service; Henry Knerr, associate dean, Graduate School; Delpha Wiesendanger, assistant dean in the College of Home Economics; Donald Arndt, head of the personnel division, Housing Department; Richard C. Maloney, associate dean of the College of the Liberal Arts; William Pierce, librarian in Pattee Library; James Selfe, accountant in Physical Plant; Mary Fleming, administrative assistant in the College of Mineral Industries.

Dorothy Lenington, administrative assistant, Nittany Lion Inn; Barbara Leetch, librarian, Ordnance Research Laboratory; John Pezzoni, personnel assistant in Personnel Services; Glenn Thiel, professor of physical education; Paulyne Fisher, supervisor of administrative records in the President's Office; M. Josephine Groesbeck, office manager in Purchases Department; and Elinor Chamberlain, supervisor of data and statistics in Public Information.

Records management representatives will take the inventory personally and in the presence of the staff member who has the ultimate responsibility for the files in each area. Fortunato explains that if the representa-

A new procedure has been initiated for the mailing of the Faculty Bulletin. It is intended to reduce the time-consuming work of maintaining the mailing list and also to serve other departments more effectively.

Graduate assistants have been supplied with the Faculty Bulletin in the past by addressing a copy to them individually. Departments will henceforth receive enough copies in bulk to supply all their graduate assistants.

As soon as information is received from the departments the names of those graduate assistants receiving the Faculty Bulletin individually will be removed from the list. We will also need to know the total number of copies required by each department, but please note that only graduate assistants, not all graduate students, will receive copies.

All regular faculty members are entitled to receive a copy addressed individually. If they are not now getting a copy, please advise us.

Address all information to Faculty Bulletin, 309 Old Main.

MAIL

Faculty and staff members can aid in the speedy delivery of U. S. mail by advising their correspondents to use as part of the address the building in which their mail is received.

According to A. C. St. Clair, director of purchases, much mail arrives daily addressed only to the University, for both staff and students. Since the U. S. Post Office is not permitted to do directorizing (that is, search for complete addresses in directories), this mail is sent in bulk to the University postmen who must search through faculty and student directories to locate the person. Frequently the person is not listed or there are many similar names, so that the mail must be returned to the sender. In any case a delay is caused.

Use of the building name aids the U. S. postmen who deliver mail on campus directly, eliminating the University postmen in the delivery process.

It is not necessary to use the office number, St. Clair advises.

tive is present when the inventory is taken, the results will be more consistent.

It is undoubtedly true, says Diem, that some departments will find it advantageous to carry on a program of weeding out unnecessary records even while the inventory process is going on. However, the first step in Operation Records Management is designed to learn what records are being kept. In some cases, several offices may be storing certain records when the need would be met if only one office did so.

In some instances departments may find materials which are of interest to the Penn State Room, the historical collection of the University. These need not be necessarily of considerable age; some fairly recent materials may be of interest. Mrs. Mary Mairs, UN 5-7931, curator of the Collection, will be happy to discuss the materials.

faculty BULLETIN

Vol. 48, No. 15

Oct. 14, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Enrollment

THE summary of enrollment statistics on pages 2 and 3 of this issue of Faculty Bulletin shows increases in many categories of students with a grand total of 21,656 registered for the Fall Semester compared to 20,377 last year. This is an increase of 6.3 per cent.

The University Park enrollment increased from 14,786 to 16,091 (8.8 per cent) and that of other campuses (not including part-time continuing education classes) decreased from 3,640 to 3,523 (3.3 per cent drop). Enrollment in part-time Continuing Education classes increased from 1,942 to 2,042.

There were decreases in the undergraduate enrollments of the College of Mineral Industries (2.78 per cent) and in the Division of Counseling (13.9 per cent); also the full-time four-year (2.2 per cent) and full-time two-year (8.25 per cent) programs at Commonwealth Campuses. There were slight increases in the number of part-time students.

Among the colleges, Education showed the largest percentage increase (23.1) in undergraduate enrollment and also the largest absolute gain (507). Liberal Arts showed a 17.85 per cent increase, with 332 more undergraduates.

Total graduate enrollment jumped by 162 at University Park, an increase of 8.35 per cent, mostly among the full-time graduate students. The total undergraduate enrollment at University Park increased by 8.83 per cent.

NEWS IN BRIEF

► **THESPIANS:** The Penn State Thespians' production of an original musical comedy, "The Big One," will be presented on Thursday, Friday, and Saturday, Oct. 27, 28, and 29 in Schwab Auditorium at 7:30 p.m.

Tickets for the show go on sale on Monday, Oct. 24, at the HUB Desk and are priced at \$1.25 for the Thursday show and \$1.50 for the other two.

"The Big One" was written by Gilbert S. Aberg, radio-television producer in Public Information, with music by Ray T. Fortunato, director of employee relations. A departure from the practice of recent years, the show is a story set to music rather than a review. The last time an original comedy by a faculty member was produced was in 1948, when Dr. Edward E. Nichols' "Bring Back My Wingback" was featured.

Aberg's story concerns a group of confidence men who set up a university in order to obtain a big endowment.

► **LECTURE:** Lt. Gen. Sir John Bago Glubb, considered an authority on the Middle East and author of the book, "A Soldier with the Arabs," will be the first speaker on the 1960-61 Lecture Series on Thursday, Nov. 3.

Other speakers are Norman Cousins, editor of the Saturday Review, on Feb. 24 and James Reston, head of the New York Times Washington Bureau, on April 25.

► **EXAMINATION:** Bulletins of information, with application blanks, concerning the Graduate Record Examinations to be given on five dates this year may be obtained from Dr. Leon R. Kneebone, 117 Buckhout Lab or from Educational Testing Service, 20 Nassau St., Princeton, N. J.

The GRE are required of applicants for admission to many graduate schools and also by an increasing number of donors of graduate fellowships. More than 27,000 candidates for admissions to graduate schools took the exams last year.

Dates for this year's tests are Nov. 19, Jan. 21, Mar. 4, April 22, and July 8. The tests include general scholastic ability and advanced level exams of achievement in 16 different subject matter fields.

► **BADMINTON:** The regular badminton class for male faculty members will begin on Tuesday, Oct. 25, from 1 to 3 p.m. in Recreation Building. Those requiring locker facilities should contact S. P. Fogg, associate professor of physical education, 5-7202.

► **REMINDER:** Faculty members are urged to remind seniors and graduate students that Nov. 4 is the deadline for receipt of complete application materials for the National Science Foundation Cooperative Graduate Fellowships for 1961-62. They must reach the office of the dean of the graduate school of the student's choice by that date. Application materials may be obtained at the Graduate School office, 106 Willard. (For more details, see Faculty Bulletin of Sept. 30.)

► **LECTURE:** Anna Brinton, associate director of Pendle Hill, Quaker graduate center at Wallingford, Pa., will speak on "The Quaker World Outlook" on Sunday at 8 p.m. in Room 121 Sparks. This is the annual Rufus Jones Lecture.

► **HUB:** Appropriate dishes and decorations will be featured at the Terrace Room Cafeteria on Monday, Oct. 24 in observance of United Nations Day. Foods representing the different natures and cultures of various countries will be served.

On Oct. 31, the annual Halloween Candlelight Dinner will be featured.

► **ARTISTS:** Tickets for the two performances of Archibald MacLeish's play "J. B." on Sunday, Oct. 30, will go on sale to the public on Wednesday, Oct. 26 at 9 a.m. at the HUB Desk.

The play stars John Carradine, Shepperd Strudwick, and Frederick Worlock and is directed by Elia Kazan. It has been one of the most praised plays on Broadway and won for its author a Pulitzer prize.

To accommodate a larger audience, the play has been scheduled for performances at 5:30 p.m. and 8:45 p.m.

► **UCA:** The annual canvass of the faculty and staff of the University on behalf of the University Christian Association will be made during the week of Oct. 24 to 29.

► **AID:** The Office of Student Aid, directed by Ralph N. Krecker, is now located in Room 205D, Old Main. The telephone number is UN 5-5421.

► **EXAMS:** Monday, Nov. 7, is the date for the regular written foreign language examinations, which will be given at 7 p.m. in the following rooms: German, Room 100 Weaver; French and Spanish, Room 112 Buckhout; English, Room 205 Sparks.

The conflict exam in French or Spanish will be held on Tuesday, Nov. 8 at 7 p.m. in Room 12 Sparks.

Registrar Reports on Enrollment for Fall Semester 1960-61

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	—	—	13	1	7	—	8	—	29
AERS	—	—	7	4	18	2	13	6	50
AgEd	—	1	27	4	28	6	45	14	125
AgI	—	—	2	—	—	—	—	—	2
Ag	286	1	—	—	—	—	—	—	287
Agro	—	—	6	1	7	1	6	6	27
AH	—	2	22	3	19	3	21	—	70
Bact	—	—	12	1	7	—	4	2	26
BPP	—	—	3	—	3	2	1	1	10
Consv	—	—	1	2	2	—	1	2	8
DSc	—	—	33	1	11	3	30	3	81
FRD	—	—	—	—	—	—	1	—	1
GnAg	—	—	7	2	7	2	3	2	23
Hort	—	—	13	3	17	4	16	3	56
LArch	—	1	16	1	8	2	10	9	47
MedT	—	1	26	2	12	—	18	1	60
PH	—	—	1	—	2	—	1	1	5
PV	—	4	27	1	13	1	1	—	47
ZE	—	3	13	1	17	3	21	3	61
2Ag	5	1	13	—	—	—	—	—	19
2MDT	—	—	1	—	—	—	—	—	1
School of Forestry	—	—	—	—	—	—	—	—	—
For	—	1	64	2	59	2	53	16	197
WU	—	—	7	1	5	—	6	3	22
Total	291	15	314	30	242	31	259	72	1254
BUSINESS ADMINISTRATION									
BA	365	20	311	38	343	65	319	111	1572
Total	365	20	311	38	343	65	319	111	1572
CHEMISTRY & PHYSICS									
C&P	371	—	—	—	—	—	—	—	371
ChE	—	3	76	3	55	—	48	10	195
Chem	—	3	64	6	37	4	23	6	143
Phys	—	5	54	7	42	12	28	11	159
PM	—	6	43	5	28	3	29	—	114
Sc	—	2	10	2	11	2	13	2	42
Total	371	19	247	23	173	21	141	29	1024
EDUCATION									
AEd	—	2	33	4	28	6	30	3	106
ED	707	—	—	—	—	—	—	—	707
EKEd	—	22	266	20	246	19	183	23	779
IArt	—	3	8	3	17	5	15	13	64
MusEd	—	1	23	7	19	5	20	6	81
Psy	—	8	88	16	80	18	62	27	299
RehEd	—	—	5	—	7	1	2	2	17
SecEd	—	12	143	25	222	33	163	40	638
VIEd	—	—	—	1	3	3	1	3	11
Total	707	48	566	76	622	90	476	117	2702
ENGINEERING & ARCHITECTURE									
AeroE	—	—	45	6	39	5	34	26	155
AgE	14	1	19	—	12	—	12	3	61
Arch	66	4	33	3	16	4	13	18	157
AE	28	—	12	—	11	3	7	13	74
CE	—	1	53	7	66	12	44	23	206
EE	—	1	172	31	208	49	165	71	697
EMch	—	—	22	2	15	3	3	3	48
Engr	788	30	10	2	1	—	—	—	831
ESc	—	—	23	—	20	—	20	1	64
IE	—	1	32	8	49	6	41	23	160
ME	—	—	74	19	75	18	79	42	307
SE	—	—	—	—	—	—	3	1	4
Total	896	38	495	78	512	100	421	224	2764
HOME ECONOMICS									
HEc	191	2	142	7	121	8	123	5	599
HA	—	—	—	1	20	3	14	7	45
2HFS	4	—	8	1	—	—	—	—	13
Total	195	2	150	9	141	11	137	12	657
THE LIBERAL ARTS									
AL	—	20	373	38	380	59	264	46	1180
LA	675	—	—	—	—	—	—	—	675
LMR	—	—	12	2	12	2	12	4	44
School of The Arts	—	—	—	—	—	—	—	—	—
AArt	—	1	33	5	21	5	14	3	82
Arts	—	—	6	2	16	1	8	4	37
School of Journalism	—	—	—	—	—	—	—	—	—
Journ	—	3	61	4	49	8	43	7	175
Total	675	24	485	51	478	75	341	64	2193

Registrar Reports on Enrollment for Fall Semester 1960-61

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
MINERAL INDUSTRIES									
CerT	—	1	10	1	10	—	9	2	33
FT	—	—	10	—	8	1	11	—	30
Geog	—	—	7	1	10	1	4	4	27
G&G	—	—	6	1	8	3	10	—	28
G&M	—	1	19	1	4	—	12	6	43
Metal	—	1	28	5	28	3	19	4	88
Meteo	—	1	17	5	11	3	37	6	80
Mnl	149	—	—	—	—	—	—	—	149
MnEc	—	—	3	—	8	1	7	1	20
MPE	—	—	2	—	3	—	2	—	7
MngE	—	—	7	—	4	1	9	3	24
PNCE	—	—	6	2	12	1	8	1	30
Total	149	4	115	16	106	14	128	27	559

PHYSICAL EDUCATION & ATHLETICS

PhEd	82	4	65	6	64	9	52	21	303
ReEd	—	—	6	—	9	3	10	5	33
Total	82	4	71	6	73	12	62	26	336

DIVISION OF COUNSELING

Counseling	123	21	313	26	96	11	17	—	607
------------	-----	----	-----	----	----	----	----	---	-----

TOTAL

UNDERGRADUATES	3854	195	3067	353	2786	430	2301	682	13668
-----------------------	-------------	------------	-------------	------------	-------------	------------	-------------	------------	--------------

U. P. Campus	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		T
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
Full-time	2440	1602	2175	1232	2198	998	2180	761	694	122	27	6	9714	4721	14435
Part-time	7	—	7	6	12	8	34	8	1028	259	116	171	1204	452	1656
Total	2447	1602	2182	1238	2210	1006	2214	769	1722	381	143	177	10918	5173	16091

Other Campuses (see summary below)

Full-time (4-Yr)	1066	322	425	118	14	—	2	—	1	—	7	7	1515	447	1962
Full-time (2-Yr)	859	1	499	5	2	—	—	—	—	—	4	—	1364	6	1370
Part-time (4-Yr)	9	3	9	2	4	1	—	1	25	—	37	31	84	38	122
Part-time (2-Yr)	13	—	51	1	—	—	—	—	—	—	3	1	67	2	69
Total (includes Mont Alto)	1947	326	984	126	20	1	2	1	26	—	51	39	3030	493	3523
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	384	152	853	653	1237	805	2042

TOTAL

ALL CAMPUSES	4394	1928	3166	1364	2230	1007	2216	770	2132	533	1047	869	15185	6471	21656
	6322		4530		3237		2986		2665		1916				

Summary of Enrollments at Other Campuses

	Four-Year		Graduate		Special		Two-Year		Total
	FT	PT	FT	PT	FT	PT	FT	PT	
Allentown	—	—	—	—	—	—	98	2	100
Altoona	229	5	1	8	4	30	121	8	406
Behrend	186	1	—	17	—	14	95	4	317
DuBois	90	3	—	—	1	9	66	1	170
Hazleton	184	3	—	—	—	1	92	1	281
McKeesport	144	5	—	—	1	1	189	25	365
Mont Alto	114	—	—	—	—	—	—	—	114
New Kensington	—	—	—	—	1	1	84	7	93
Ogontz	820	12	—	—	3	8	98	2	943
Pottsville	180	—	—	—	3	9	39	1	232
Scranton	—	—	—	—	1	—	107	4	112
Wilkes-Barre	—	—	—	—	—	—	141	4	145
Wyomissing	—	—	—	—	2	—	109	1	112
York	—	—	—	—	—	1	127	5	133
Total	1947	29	1	25	16	74	1366	65	3523

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	271	26	14	1
Business Adm.	71	2	16	14
Chem. & Phys.	290	17	10	—
Education	302	124	23	33
Eng. & Arch.	193	1	15	4
Home Economics	3	60	1	29
Liberal Arts	298	125	50	94
Mineral Ind.	244	4	12	1
Phys. Ed.	28	11	2	1
General Graduate	22	11	—	—
Total	1722	381	143	177
	2103		320	

Recapitulation

U. P. Campus	M	W	Total	Other Campuses and Off-Campus	M	W	Total
Full-time undergraduate	9020	4599	13619	Full-time undergraduate	2878	453	3331
Part-time undergraduate	176	193	369	Part-time undergraduate	126	40	166
Total undergraduate	9196	4792	13988	Part-time Continuing Ed. undergraduate	853	653	1506
Full-time graduate	694	122	816	graduate	384	152	536
Part-time graduate	1028	259	1287	Full-time graduates	1	—	1
Total graduate	1722	381	2103	Part-time graduates	25	—	25
Total U. P. Campus	10918	5173	16091	Totals	4267	1298	5565
Totals All Campuses	M	W	Total				
Undergraduate	13053	5938	18991				
Graduates	2132	533	2665				
Grand Totals	15185	6471	21656				

CALENDAR

Friday, Oct. 21

Center Stage production of "Romanoff and Juliet," 8 p.m.

English Colloquium, 3:30 p.m., HUB Auditorium. Brice Harris, professor of English, on "Love and Death and the English Teacher."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Howard A. Robinson, Adelphi College, on "Physical Properties and Structure of Silica for Simple Silicate Glasses."

Saturday, Oct. 22

Center Stage production of "Romanoff and Juliet," 8 p.m.

Interlandia Folk Dance Festival, Recreation Building.

Meeting of the English Department, including Commonwealth campuses faculty members, 11 a.m., Room 121 Sparks.

Artists Series program by Leon Fleisher, pianist, 8:30 p.m., Schwab Auditorium. (Postponed from Oct. 19.)

Sunday, Oct. 23

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Theodore Braun, program associate, University Christian Association.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger Shinn, professor of Christian ethics, Union Theological Seminary.

UCA Sunday Evening Forum, 7:30 p.m., Helen Eakin Eisenhower Chapel.

Rufus Jones Lecture, sponsored by the State College Friends Meeting and University Christian Association, 8 p.m., Room 121 Sparks. Anna Brinton, associate director of Pendle Hill, on "The Quaker World Outlook."

Monday, Oct. 24

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. John C. Griffiths, head of the department of mining, on "Sermon In Stone."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. Raymond Pepinsky, research professor of physics, on "High Temperature Crystallographic Instrumentation."

Meteorology Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. Charles L. Hosler, professor of meteorology, on "The International Congress on the Physics of Clouds at Verona."

Tuesday, Oct. 25

Agronomy Seminar, 4:10 p.m., Room 111, Tyson. Ivan McKeever, U. S. Soil Conservation Service, and James MacEachron, Cooperative G.L.F. Exchange.

Political Science Seminar, 12 noon, dining room "A", Hetzel Union Building. Stuart Nagel, on "Political Party Affiliation and Judicial Decision Making."

Plant Science Club, 7:30 p.m., Room 111 Tyson. C. S. Wyand, vice-president for development, on "Penn State in Transition — The Development of Your University."

Wednesday, Oct. 26

Horticulture Club meeting, 7:30 p.m., Room 108 Tyson. Leslie P. Greenhill, associate director of DARS, on "Expedition to Rodondo Island." All are welcome.

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. David H. Kurtzman, State Secretary of Administration, on "The State's Taxing Power and Its Impact on the Economic Growth of the Commonwealth."

Thursday, Oct. 27

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. A. C. Riddiford, department of chemistry, University of Southampton, on "Kinetics of Electrode Processes."

Thespians' show, "The Big One," 7:30 p.m., Schwab Auditorium.

Friday, Oct. 28

Thespian Show, "The Big One," 7:30 p.m., Schwab Auditorium.

Center Stage production of "Romanoff and Juliet," 8 p.m.

Varsity cross country, versus Navy, 1 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Sidney Siggia, manager of analytical services, Olin Mathieson Co., on "The Analytical Tool Kit Used for Inorganic Materials."

Philosophy Colloquium, 4:15 p.m., Room 217 Willard. Dr. Richard Rorty, Wellesley College, on "Need for Metaphilosophy."

NEXT MONTH

- Oct. 30 — Artists Series, "J. B."
- Nov. 3 — Graduate Lecture Series, Donald B. Hardin
- Nov. 10 — Artists Series, Fischer-Dieskau
- Nov. 13 — Organ recital, George Ceiga
- Nov. 15 — Graduate Lecture Series, Roger Barker
- Nov. 20 — Artists Series, Marcel Marceau
- Nov. 22 — Thanksgiving Recess begins



Cannon

Dahmus

Personnel Matters

Dr. Michael R. Cannon, who announced his retirement on Oct. 1, has been conferred the title of professor emeritus of chemical engineering.

A 1931 graduate of Penn State, Dr. Cannon began his University career as an assistant in chemistry in 1933. He was named to the staff of the Petroleum Laboratory in 1935 and since 1937 has taught chemical engineering. He earned his master of science degree in 1932 and doctor of philosophy in 1935.

The Liberal Arts Research Scholar for the fall semester is Dr. Joseph H. Dahmus, professor of medieval history, who will use the opportunity to complete his biographical study of William Courteney, archbishop of Canterbury from 1381 to 1396.

A member of the faculty since 1947, Dr. Dahmus has also taught at St. John's University, Brooklyn; Aquinas College, Grand Rapids, Mich.; and College of Mount Saint Vincent, New York.

Dr. John A. Mourant, professor of philosophy, was the holder of the honor as research scholar last spring.

faculty BULLETIN

Vol. 48, No. 16

Oct. 21, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Calendar problems

PENN STATE has a unique opportunity to change the process of education from one of teaching to one of learning, in the view of Dr. Ben Euwema, dean of the College of the Liberal Arts.

"The transition to the four-term calendar with 75-minute periods and other recent changes in our academic program make it necessary for us to require the student to assume a great deal more of the responsibility for his own education than we have given him in the past," says Dean Euwema.

"Unless the student understands this responsibility, however, there may be many difficulties for him during the transition period.

"Few students have been accustomed to this approach to education, but I am confident that with better students enrolling here we will do a better job once they have accepted their new role."

One example Dean Euwema uses to illustrate his reasons for believing as he does is the fact that the 75-minute period will permit the instructor more leeway in using a variety of educational techniques.

"The longer period will exert a strong pressure on him to vary his teaching methods," says Dean Euwema, "simply because he may find it difficult to keep the attention of the class for the entire period, especially in a large class."

In eliminating all rules concerning class attendance recently, the Senate also took a step which Dean Euwema

(Continued on page three)

NEWS IN BRIEF

► **MARTIN:** An arrangement has been consummated with the Martin Co., of Baltimore, Md., under which part of the newly acquired nuclear facilities at Quehanna will be made available for research in the development of isotopic power.

The agreement is contingent on the approval of a license by the Atomic Energy Commission.

In particular, the Martin Co. will use five "hot cells" in which radioisotopes are handled safely with mechanical manipulators. The company has been a pioneer in the field of research of converting the heat energy of radioactive materials into electrical energy.

► **PUGH:** Margaret Tschan Riley, research assistant for the Penn State Collection in Pattee Library, has authored "Evan Pugh of Pennsylvania State University and the Morrill Land-Grant Act" which appears in the October issue of "Pennsylvania History," the quarterly journal of the Pennsylvania Historical Association.

Pugh was the first president of the University. Mrs. Riley's article is biographical.

► **ARTISTS:** Archibald McLeish's play "J. B.," starring John Carradine, Shepperd Strudwick, and Frederiek Worlock will be presented by the Artists Series on Sunday, Oct. 30 at 5:30 p.m. and 8:45 p.m.

The next performance in the Series will be given on Thursday, Nov. 10 by Dietrich Fiseher-Dieskau, baritone, who will give an all-Hugo Wolf recital of "Lieder."

► **COOPERATIVE:** Civilian employees of the Supply Department of the Naval Air Material Center in Philadelphia have the opportunity to obtain bachelor's degrees in engineering through a cooperative work-study program with the University. Now enrolled are 37 participants at University Park and 9 at Ogontz. Begun in 1957, the program is supported by the Naval Air Material Center.

► **COMPUTER:** "A Brain Computer Approach Toward a Model of Man" will be the subject of discussion at the Psychology Colloquium today at 8 p.m. in Buckhout Laboratory.

Dr. Masanao Toda, professor of psychology at Hokkaido University in Japan, will be the speaker. Now on leave from his university, Dr. Toda is on a lecture tour of the U. S. His interests are in the areas of game theory, decision making, and information processing.

► **WOMEN:** Faculty women and wives of faculty members are invited to participate in an informal program of activities in White Hall Tuesday afternoons from 3:00 to 4:30 and on Thursdays from 3:30 to 4:30 p.m.

Badminton, bowling, swimming, and volleyball will be offered on Tuesdays and a group class in exercise and dance will be conducted by Mrs. G. K. Nelson on Thursday afternoons.

A meeting of interested persons will be held on Tuesday, Nov. 1 at 3 p.m. in Room 105 White Building. After a short meeting facilities will be open for participation.

Call UN 5-7591 for further information.

► **LECTURE:** Dr. Donald B. Harden, noted archaeologist and director of the London Museums since 1956, will speak on "Roman London" in the current Graduate Lecture Series on Friday, Nov. 4 at 8 p.m. in Room 121 Sparks.

Educated in England, with a master's degree from Cambridge University and also from Oxford, Harden obtained his doctor of philosophy degree from the University of Michigan. His work in England has included positions as keeper of the department of antiquities, Ashmolean Museum, Oxford, and various posts in the ministries of supply and production during the war. He holds many positions in archaeological and historical societies.

► **SEMINARS:** Seminars in Home Economics have been scheduled for the fall and spring semesters at the noon hour in dining room "A" of the Hetzel Union Building.

The first seminar will be held on Wednesday, Nov. 2, when Dr. Carl-fred B. Broderick, associate professor of family relationships, will speak on "Changing Patterns of Boy-Girl Relationships among Pre-Adolescents."

Other speakers in the series will include Dr. Daniel F. Hobbs, Jr., on Dec. 7; Dr. Barbara E. Densmore, on March 1; and Dr. Joseph H. Britton, on May 3.

► **BAND DAY:** A total of 60 bands from 31 counties will participate in the annual Band Day parade and activities at half-time of the Penn State-West Virginia football game tomorrow. There will be 3,975 performing musicians, 646 drum majors and majorettes, and 276 color guards participating.

This is the 11th Band Day.

(Continued on page three)



At least with scientists

Russian contacts feasible

IN the experience of Dr. Martin W. Schein, associate professor of animal behavior, effective contacts with Russian scientists are not only feasible but rewarding.

Last year, Dr. Schein spent 23 days visiting laboratories in the Soviet Union, principally those related to agricultural and behavioral sciences. During his stay, also, he gave a number of lectures, planned and impromptu.

"While I was there, and in the months since, I had very pleasant contacts with many men and women interested in our work and anxious to show us theirs," Dr. Schein says.

"Most recently, the vice-president of the Presidium of the Ukraine Academy of Agricultural Science, Academician P. D. Pschenichney, has written to me asking for help in getting materials for an exhibit of the outstanding scholars of the nutrition of domestic animals.

"He would like to have, in particular, an old classical book on nutrition written by Dr. H. P. Armsby, one of the most famous names in Penn State agricultural research and the man for whom the main agricultural building on the campus is named. He also asked for a picture of Dr. Armsby."

Pschenichney was only one of many Russian scientists who endeavored, successfully, to make Dr. Schein's visit rewarding and amicable. There were few restrictions on his movements in Russia and the tour was as inclusive as he could have hoped for in three weeks.

"I saw their laboratories, personnel, and research facilities as they really are in their everyday work, not as they might be spruced up for a visiting dignitary.

"That's one advantage of going as a private individual rather than as an official government representative. In that respect, I suppose, Russians are no different from us, because when an official government representative comes here from any country, we apply the spit and polish to our facilities, too. If he were simply an average citizen, we would probably not go to any great lengths to impress him but extend him normal courtesies."

Frankly, Dr. Schein adds, the research facilities he saw in the agricultural science research stations were incomplete and not fully equipped, except in certain areas. The Ukraine Academy, one of the major stops on Dr. Schein's tour, governs 97 research and teaching institutions involving 2,500 research workers and 5,800 teachers in the Ukraine Republic, which is in some respects the "breadbasket" of Russia. In spite of physical limitations, the scientists are getting things done.

"At one research station the tanks in which fish were kept for research were discarded bathtubs. They worked fine for their purpose but of course did not present a glamorous front for visitors. The fish seemed quite contented.

"I do not cite this to belittle their research but to indicate that those

scientists are working under handicaps. Whether that is true in other areas of research I don't know. You can't beat their enthusiasm for their work, however."

Dr. Schein's services were much sought after for talks and discussions. His research has been heavily in the area of comparative psychology and animal behavior in which the Russians are apparently weak. He lectured in Leningrad, Moscow, and Kiev, and gave informal talks at other stations.

"At Kiev, I described the paper which I had given shortly before at the International Ethological Conference at Cambridge, England. I'm afraid it was of little interest to the audience, who were more interested in the practical aspects of breeding work rather than the basic behavior which I described.

"In the areas of research I encountered in Russia, I would say that they are much more interested in research studies which solve immediate and practical problems, moreso than we are."

The problem of language was not as difficult as the problem of linguistics, Dr. Schein learned, for many of the scientists speak English. Some words, however, can't be translated to give the exact meaning intended and other words give the wrong impression. For example, when the Russian scientists say "proved" they apparently mean "suggest." At one point in a

(Continued on page four)

Calendar —

(Continued from page one)

believes will contribute to the new approach.

"In effect, we now say, at least in many courses, that the student doesn't need to go to class and is required only to learn the subject matter or develop his mental processes in any way he can. It seems to me that one change necessary in our methods, therefore, will be a new approach to the course examination."

* * *

Two steps will be taken shortly to inform students and parents of the implications of the four-term calendar.

Sometime before Christmas, L. E. Dennis, vice-president for academic affairs, says, a letter will go out from the President to the parents of all students.

Also, a Student Convocation will be held to explain the advantages of going to school the year round.

* * *

Since many of the necessary course and curriculum changes will require action by the Senate, chairmen of all Senate committees have been charged with the responsibility of determining the extent to which the new academic calendar will affect problems in their areas.

* * *

Approximate date of the new University Catalogue is now set at May 15, which means that corrections and changes in curricula will be completed by mid-February. No course description changes will be made at this time in the interest of avoiding delay. Curriculum materials now constitute about one-half of the catalogue.

News —

(Continued from page one)

➤ **FUND:** The annual Community Fund drive in the State College area, which includes the boro and four townships, will be conducted from Oct. 31 to Nov. 4. A house-to-house solicitation will be made to benefit 15 agencies.

➤ **SENATE:** The University Senate will meet on Thursday, Nov. 3 at 4:15 p.m. in Room 121 Sparks.

➤ **RIDING:** Faculty members and graduate students interested in horses and riding are invited to take part in the activities of the Penn State Riding Club. Trail rides are held every Saturday and Sunday afternoons. For information about the rides call Barbara Kraeling, UN 5-6867. Captain Gregory Gagarin is advisor to the Club.

CALENDAR

Friday, Oct. 21

Center Stage production of "Romanoff and Juliet," 8 p.m.
English Colloquium, 3:30 p.m., HUB Auditorium. Brice Harris, professor of English, on "Love and Death and the English Teacher."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Howard A. Robinson, Adelphi College, on "Physical Properties and Structure of Silica for Simple Silicate Glasses."

Saturday, Oct. 29

Thespians' Show, "The Big One," 7:30 p.m., Schwab Auditorium.
Football, versus West Virginia, 1:30 p.m., Band Day.

Graduate Student Association Square Dance, for all graduate students and faculty members, 8:30 p.m., HUB Ballroom.

Sunday, Oct. 30

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Arthur Seyda.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. A. T. Mollegen, professor of Christian Ethics, The Protestant Episcopal Seminary.

Sunday Evening UCA Forum, 7:30 p.m., Helen Eakin Eisenhower Chapel.

Monday, Oct. 31

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Ruth Silva, professor of political science, on "Political Predictions — 1960."

Meeting of faculty of College of Physical Education and Athletics, 7 p.m., Room 241 Recreation Building.

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. N. J. Palladino, on "Nuclear Reactors."

Meteorology Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. A. K. Blackadar, associate professor, and G. E. McVehil, in-

structor in meteorology, on "The Wind Distribution in the Atmospheric Boundary Layer."

Tuesday, Nov. 1

Agronomy Seminar, 4 p.m., Room 111 Tyson. "Human Factors in Professional Careers," with Perry Onstot, Davison Chemical Co., and J. W. Stiles, Cooperative Grange League Federation.

Wednesday, Nov. 2

Chess Club, 7 p.m., HUB card room.
Graduate Mining Seminar, 3:20 p.m., Room 304 Mineral Industries. M. M. Singh, on "Mechanism of Rock Failure under Impact."

Phi Delta Kappa dinner meeting, 5:30 p.m., HUB dining room "A" (cafeteria style). Speaker: member of Russian embassy in Washington, D.C., featuring 16 mm. sound film on Russian education. All interested persons are invited.

Home Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. C. B. Broderick, on "Changing Patterns of Boy-Girl Relationships among Pre-Adolescents."

Thursday, Nov. 3

Senate meeting, 4:15 p.m., Room 121 Sparks.

University Lecture Series, 8:30 p.m., Schwab Auditorium. Lt. General Sir John Bagot Glubb on "The Middle East: Storm Center of the World."

Psychology Colloquium, 12 noon, dining room "A", Hetzel Union Building. Patricia A. Yost, NSF pre-doctoral fellow in psychology, on "The Concept of Probability in Children."

Chemistry Colloquium, 12:30 p.m., Room 119 Osmond. Michael Cava, chemistry department, Ohio State University, on "Some Aspects of the Chemistry of Benzocyclobutene."

Friday, Nov. 4

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Donald B. Harden, archaeologist, London Museum, on "Roman London."

Items of interest

Articles and Papers

At the 21st annual convention of the Pennsylvania Speech Association Oct. 13-15, papers by the following members of the speech department faculty: H. P. ZELKO, J. K. BRILLHART, R. E. DUNHAM, graduate students JAMES ANDREWS, DAVID REIFSNYDER, and MARSHALL FLAMM; also A. H. REEDE, economics.

CAMPBELL, M. E., Commonwealth campuses, a paper on "Rx for Student Development" at the meeting of the Pennsylvania Association of Junior Colleges, at the Ogontz Campus.

DICKSON, H. E., history of art and architecture, two articles on art in the Colonial and post-Revolutionary era and painting since the 1830's published as leaflets by the Pennsylvania Historical and Museum Commission.

FISHER, KATHERINE H., foods and nutrition, and SWIFT, R. W., animal nutrition emeritus, a series of articles on "Food Fallacies" for Inplant Food Management Magazine.

FORD, D. H., Counseling, a paper on "Counseling and Knowledge" at the meeting of the Pennsylvania Association of Junior Colleges at the Ogontz Campus.

GOTOLSKI, W. H., civil engineering, an article on "High Temperature Effects on Bituminous Mixes" in the current journal of the Highway Division Proceedings of the American Society of Civil Engineers.

LESAGE, LAURENT, Romance languages, a review of the book "Zazie" by Raymond Queneau, in the Oct. 15 issue of Saturday Review.

MYERS, EUGENE, economics, a paper on permissive local taxation at the 53rd Annual Conference on Taxation sponsored by the National Tax Association Sept. 5-9.

OPPEL, G. U., engineering mechanics, a paper on "Photoelasticity Applied to Material Properties of Concrete" at the Mechanics Division meeting of the American Society of Civil Engineering.

RODGERS, A. L., geography, a paper, "The Flow of Coking Coal in the Soviet Union," at the International Geographical Congress in Stockholm, Sweden.

SILVA, RUTH, political science, a chapter entitled "Party and Constituency in the United States," in the book, "Present Trends in American Government" published in London by the Hansard Society for Parliamentary Government.

VOSS, B. E., secondary education, an article, "Biology Fact and Future," in The American Biology Teacher and reprinted in the June issue of The Welch Biology and General Science Digest.

WEINTRAUB, STANLEY, English, an article, "Bernard Shaw, Actor" in the October, 1960 issue of Theatre Arts Magazine.

— An article, "Apostate Apostle: H. L. Mencken as Shavophile and Shavophobe," in "Education Theatre Journal," October, 1960.

Russian —

(Continued from page two)

research study they are ready to say the work is "completed" while we might say only that the thesis is suggested but more work is needed to finally "prove" it.

Two questions were asked a number of times of Dr. Schein in his own field: Do you (American biologists in general) teach Darwinism? and Do you teach Lysenkoism?

Lysenko is a Russian scientist whose philosophy of genetics is the accepted Communist Party line. To many Russian scientists he holds the same position as Mendel does to Western scientists, but his theories are largely scoffed at in this country. (Darwin, although accepted by Russian scientists, is revered for his early work, rather than for the later studies which Western biologists accept.)

"Actually there is little difference in the way we would go about accomplishing the same end genetically," Dr. Schein says, "even though our theories would differ on why we got there.

"For example, if it was desired to develop a breed of cow able to withstand the hot summers of tropical zone, we would move several breeds to the south and select the best progeny over a number of generations as they seemed able to stand the high temperatures. In other words, we would say that those which survived our tests were those having the necessary genes. In breeding, then, we would match animals which would have as dominant genes those characteristics of resistance to temperature.

"Lysenko, however, contends that characteristics which are developed by environment can be inherited, and

so he would start his program, as we would, by taking a number of breeds of cows to the tropical climate and exposing them to higher temperature, thus 'forcing' some cows to adapt. The 'forced' cows would then be selected to produce generations which now inherit the acquired characteristic of temperature resistance.

"In other words, we would say the fittest survived; Lysenko would say that some animals adapted themselves to the environment and passed on their adaptation to their progeny."

The question of whether we teach Lysenkoism was apparently not directed to embarrass or harass Dr. Schein but simply out of scientific curiosity. He learned that many of his Russian colleagues were as skeptical of Lysenko as we are. Quite apparently the "party line" did not in this case dictate the thinking of the scientists.

Many of the men Dr. Schein has since corresponded with show eagerness to exchange scientific reprints and ideas with our own researchers. Many read English, but replies will probably be in Russian, as will most of the reprints they might send.

"I found it useful to write to the person at home," says Dr. Schein, "since apparently sometimes if I sent materials to him at his institution, some of the materials might be 'removed'."

On his return, Dr. Schein brought a number of materials to help others on the campus. For example the Russians have done a great amount of research on artificial breeding and some of their studies have not yet been duplicated here.

"I think we can learn from them," Dr. Schein concludes. "We simply need to make the attempt."

Medical seminars

A series of seminars which, it is hoped, is only the beginning of a growing cooperative program between Jefferson Medical College at Philadelphia and the University, will be held in November.

Designed for Pennsylvania physicians, the post-graduate seminars will begin on Nov. 3 in Chambersburg and York on the subject, "Hypertension: A Sensible Approach to Therapy." The same program will be given in Lancaster and Lebanon on Nov. 10.

Academic portions of the program which involve the study of medicine will be conducted by Jefferson while the administration and arrangements will be handled through the University's Continuing Education Services.

Primary objective of the seminars is to provide practicing physicians with the latest information on topics of current interest in the diagnosis and treatment of patients.

Newton O. Cattell, assistant regional director of Continuing Education in the Harrisburg area, has been designated to coordinate the organization of the programs in accordance with the demands from physicians in the various areas of the State.

The seminars will be acceptable for three hours of credit in Category I by the American Academy of General Practice.

Some of the topics being considered for future seminars are: "Problems of Thyroid Disease"; "What is New in Drugs"; "Antibiotics"; "Psychiatry"; and "Pediatrics."

In addition to lectures, the seminar program includes panel discussions and a question period.

faculty BULLETIN

Vol. 48, No. 17

Oct. 28, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Personnel Matters

Dr. Laurence W. Sheridan, a staff engineer with General Precision, Inc., of Washington, D.C., has been named associate professor of mathematics at the Altoona Campus. A graduate of Canisius College, he obtained master of arts in physics and doctor of philosophy in aerodynamics degrees from Catholic University. He has also received a master of science degree in meteorology from New York University. He has taught previously in high schools and colleges and in industry has worked as a mathematician, senior physicist with General Mills Research and Development, as research engineer, and as staff engineer. He was also a research meteorologist with the U. S. Weather Bureau from 1942 to 1946.

Other recent appointments include: Carey, Harry A., Jr., assistant county agricultural agent.

Carroll, Gerald V., visiting associate professor of geology.

Cataldo, John W., associate professor of art education.

Christensen, Janice R., instructor of extension information.

Mogar, Robert A., psychologist, Division of Counseling.

O'Brien, James A., research assistant of chemical engineering.

Reynolds, George H., instructor of theatre arts.

Robinson, Gordon E., research assistant of nuclear engineering.

Waters, William K., assistant county agricultural agent.

Warren, John M., Jr., associate professor of psychology.

White, Eugene E., associate professor of speech.

Wightman, James P., research associate of fuel technology.

Williams, Rose D., assistant extension home economist.

Wilson, Walton N., assistant in bacteriology, Continuing Education.

NEWS IN BRIEF

► **INDIA:** To increase knowledge about contemporary India and to promote international understanding, an "India Weekend" will be held Nov. 11-13. It is sponsored by the University Christian Association and the Friends of India Association.

Of particular interest in Saturday's program are:

1. An address by Dr. James Davis, president, National Association of Foreign Student Advisors, 10:30 a.m., HUB Auditorium, on "Cultural Exchange between East and West." (Arranged with the office of International Student Affairs.)

2. Discussion seminars on variety of topics related to India, 2 p.m., second floor, HUB.

3. Panel discussion on "The Future Relationship between India and the U. S. A., 4:30 p.m.

4. Banquet, 6:30 p.m., Wesley Foundation. Address by Hon. B. N. Adarkar, India's Director on the International Monetary Fund, on "Foreign Aid and India's Economic Development."

Indian students attending colleges and universities in Pennsylvania have been invited to come to the campus for the program. Faculty and townspeople are serving as hosts for Friday and Saturday nights.

A registration fee of \$1.00 for full-time participants in the program is being charged. Banquet tickets are on sale at the UCA office in the Chapel, \$2.00 each.

► **ENERGY:** Meredith W. Thring, distinguished visiting professor of fuel technology, will speak on "Energy Sources for the Earth and for Space Travel" Monday, Nov. 7 at 8 p.m. in the Mineral Industries Auditorium.

Thring is the Newton Drew professor of fuel technology at the University of Sheffield, England, where he is chairman of the department of fuel technology and chemical engineering and dean of engineering. He will be on campus from Nov. 7 to Nov. 22, presenting several seminars, informal conferences, and will give a paper at the Anthracite Conference to be held here Nov. 15-16.

► **ENGLISH:** Willard Thorp, professor of American literature, Princeton University, and Robert Streeter, of similar position at the University of Chicago, will debate the place of American studies in the graduate program as the feature of the English Colloquium on Tuesday, Nov. 8 at 7:30 p.m. in the Nittany Lion Inn.

Thorp, one of the authors of "The Literary History of the United States"

will take the pro side of the argument and Streeter, equally known in the field of literature and education, the con side.

Thorp will be the principal speaker at an open meeting of Sigma Tau Delta, honorary society, at 8:15 p.m. in Room 121 Sparks.

► **CHEMICAL:** Dr. Harold Hart, professor of chemistry, Michigan State University, will address the 264th meeting of the Central Pennsylvania Section of the American Chemical Society on Tuesday, Nov. 8 at 8 p.m. in Room 111 Boucke. He will speak on "Stable Multipositive Carbonium Ions."

► **MARRIED:** A total of 2,225 students enrolled at University Park are married, among them 931 undergraduate, 1141 graduate, and 183 special students.

The undergraduates constitute 6.8 per cent of the total undergraduates; graduate students represent 55 per cent of the total graduate students; and special students married, many of them wives or husbands of staff members, make up 58 per cent of the total specials.

There are 43 married freshmen (1.1 per cent of total) but 504 seniors married (20.5 per cent of total seniors).

► **ENZYMES:** Dr. E. J. Boell, Ross Harrison professor of experimental zoology at Yale University, will be the next speaker in the Biological Sciences Lecture Series, on Thursday, Nov. 10 at 4:15 p.m. in Room 112 Buckhout.

He will speak on "Enzyme Activity of Mitochondria during Amphibian Development."

► **INTEGRATION:** "Integration in the Churches" will be the subject of the University Christian Association Lecture on Sunday, Nov. 6 by The Rev. Cornelius C. Tarplee, associate secretary for Intergroup Relations, The Episcopal Church, at 4:15 p.m. in the Helen Eakin Eisenhower Chapel.

► **LIVING:** Of the 16,091 students registered for the fall semester at University Park, 8797 (54.6%) live in University residence halls, 4280 (26.6%) in private off-campus housing, 1975 (12.3%) in fraternities, 702 (4.4%) at home, and 337 (2.1%) in trailers.

Among undergraduate students, 8,461 live on campus, 2598 in private off-campus housing, 1949 in fraternities, 412 at home, and 248 in trailers.

Of the 2,103 graduate students, 331

(Continued on page four)

Mexico valley studied



A valley 30 miles northeast of Mexico City was both classroom and research laboratory for Dr. William T. Sanders, assistant professor of anthropology, this summer.

Fifteen graduate and undergraduate students accompanied Dr. Sanders on the 14-week expedition, about half of them anthropology majors who got professional training and the other half non-majors who benefited greatly by the exposure to a new culture.

For Dr. Sanders the trip was the beginning of a long-range study of the Teotihuacan Valley where ancient ruins have been a tourist attraction for many years and where the long-dead civilizations of the predecessors of the Aztecs seem to come to life.

Even with the excellent archaeological work and historical studies of the area already completed or well on their way to completion, there is much to be learned about the history of human occupation of Teotihuacan. The Mexican government has carried on extensive excavations of important structures, such as the 216-foot Pyramid of the Sun. Aerophotos have been completed of a wide area by a private German concern. Moreover, 16th-century Spanish documents dealing with the area are abundant and useful in providing data on immediate prehistoric periods.

"Unfortunately," says Dr. Sanders, "we know little if anything about the history of the cultural ecology of the area. For example, did farmers of the period of 300 B.C. to 600 A.D. live in villages, were they scattered, or did they live at the city itself? Was the civilization of 600 A.D. similar to that of the earlier period, or quite different, and what were the processes and phases of its development?"

"We know quite a good deal about the urban civilization of ancient Mexico, but little of the peasant population which supported it. At one time



there was apparently a city of 30,000 or more people and some of the buildings were spacious palaces of 80 or more rooms. They had to have food and clothing, so it is obvious that they had a supporting rural population nearby."

Teotihuacan Valley is 7,000 feet above sea level. It is fertile but lacks water in the amounts we are accustomed to, and because of its elevation the growing season is relatively short. Still, it was undeniably strong agriculturally in the earlier civilizations to have been able to support such a large population, apparently in opulence. Today and during the Aztec period, the basis of the agricultural system was irrigation.

"It is now supposed," explains Dr. Sanders, "that the earlier civilizations used irrigation but we have no archaeological evidence to date. One of the objectives of the field project is to find such evidence."

The reasons for the development of urban Teotihuacan are not entirely clear nor is there good documentary evidence who the builders were.

Dr. Sanders technique the past summer is described as surface surveying. Materials, such as pottery, were abundant because the area is relatively untouched since the Teotihuacan civilization largely disappeared about 600 A.D. With the aid of Carbon-14 dating, the potsherders will add much to the chronology of the area.

One purpose of the research study is to develop the continuity and origins of the civilization. Some evidence seems to indicate that the inhabitants of 300 B.C. were not much different from those of 600 A.D. but this is not assured. The largest building, the

Students, above, did excavation work around prehistoric dam in Valley of Mexico the past summer in group led by Dr. William T. Sanders, asst. prof. of anthropology.

Pyramid of the Sun, is also the oldest, which would suggest some continuity over a long period of time.

Aside from the Mexican Government, a number of organizations have conducted studies in the Valley. Dr. Sanders has been in Mexico himself a number of times, with the New World Archaeological Foundation, the Carnegie Institute, Louisiana State University geology team, and the Institute de Anthropologia of Mexico.

The study this summer was aided by a small grant from the Pan American Union, which encourages such projects as good neighbor programs. There is little doubt that the work will be continued, including more excavations.

"From the viewpoint of the archaeologist or anthropologist, this is a wealthy region for examination," says Dr. Sanders. "It proved to be a good laboratory for our students, too."

Letter mailed

A letter to the parents of current Penn State students was mailed this week by President Walker to explain the four-term calendar and the benefits which accrue from the plan.

Specifically, President Walker pointed out that (1) students can receive their college degrees in three years; (2) expenditures per year will not change unless the student goes to school all four terms; (3) gaining a year in earning full income would offset added costs of a fourth term; (4) new students can begin studies at more frequent intervals; and (5) the University will be enabled to meet demands of larger numbers of students, research workers, and other groups.

Items of interest

Elected and Appointed

- BERLIN, A. J., Speech and Hearing Clinic, elected president of the Pennsylvania Speech Association for the coming year.
- BREWSTER, R. W., political science, appointed to an Advisory Committee on Working Conditions for Women and Minors, under the Bureau of Women and Children, Pennsylvania Department of Labor and Industry.
- BROWN, I. V., history, appointed to the Council of the Pennsylvania Historical Society.
- HENCH, W. M., economics, elected to a seven-year term on the board of trustees of Cottey College.
- HOOGENDOORN, A. A., political science, appointed secretary of the Pennsylvania Historical Society.
- MACKENZIE, O. R., Business Administration, elected president of the Middle Atlantic Association of Colleges of Business Administration.
- MATSON, F. R., Liberal Arts, appointed to be in charge of the Archaeological Section of the Sixth International Glass Congress.
- MATSON, MARGARET, sociology, elected official delegate to the Biennial Delegate Assembly of the National Conference of Social Workers at Chicago.
- MOURANT, J. A., philosophy, elected president of the Western Pennsylvania Philosophical Society.
- NELSON, G. K., accounting, appointed to a three-year term as member of the Committee on Research Planning of the National Association of Accountants.
- RINDONE, GUY, ceramic technology, appointed technical program chairman of the Sixth International Glass Congress to be held in Washington in 1962.

Honors and Awards

- TAYLOR, C. F., plant pathology extension, awarded a prize of \$100 by the U. S. Army Chemical Corps for his work in inventing a "dew meter."

Lectures and Talks

- ANDREWS, FRANCES M., an address before the meeting of the Maryland State Department of Education, on "The Total Music Program in the Public Schools."
- an address during the Pennsylvania Schoolman's Week on "Revision of the Music Curriculum."
- an address before the Rhode Island Department of Education on "Developing an Effective State Music Bulletin."
- BROWN, I. V., history, an address on "Pennsylvania and the Rights of the Negro, 1865-1887," at meetings of the Pennsylvania Historical Society.
- DALBOR, J. B., Romance languages, a talk on "The Application of Linguistics to the Teaching of Foreign Languages," for the Foreign Language section of the Centre County Teachers' Institute on Oct. 20.
- DAVIS, D. E., zoology, an address, "Behavior and Resistance to Infection" on the All-University Lecture Series at the University of Wisconsin on Nov. 3.
- HARTMAN, H. L., mining, a talk before the Indiana County Science Seminar for gifted high school students, on "Exploration and Mining of Coal."
- HENDERSON, GRACE M., Home Economics, an address before the annual conference of the Extension Division of Home Economics, University of Massachusetts.
- a talk on "New Directions in Home Economics" before the Home Economics Section of the eastern district of the PSEA.
- HOOGENDOORN, A. A., history, a talk on

- "Pennsylvania and Civil Service Reform, 1865-1890," at meetings of the Pennsylvania Historical Society.
- GROSSMAN, MORRIS, philosophy, an address before the Western Pennsylvania Philosophical Society on "A Glimpse at Some Unpublished Santayana Manuscripts" at the fall meeting of the Society.
- JACKSON, D. N., psychology, an address on "Stylistic Response Determinants" at a Conference on Personality Measurement, sponsored by Educational Testing Service, Princeton, N. J.
- JOHNSTONE, H. W., JR., philosophy, on leave at Trinity College, Dublin, Ireland, comment on a paper by J. R. Jones, of Swansea, on "Arc Intentions Dispositions," at the meeting of the Dublin University Metaphysical Society on Oct. 28.
- KENNEY, E. S., Reactor, a talk on "Radiation — Aid or Adversary" before the Engineering Forum sponsored by the Philco Corp.
- MAGNER, T. F., Slavic languages, an address at the Niagara University annual reunion dinner on Oct. 15.
- MCDONALD, E. T., Speech and Hearing Clinic, a discussion of our obligation to the speech and hearing handicapped at the West Virginia Federation of Councils of Exceptional Children; also consultant to symposium evaluating what is now available for speech and hearing handicapped in West Virginia.
- MCGEARY, M. N., political science, main address at the annual dinner, Pennsylvania Historical Society on "Gifford Pinchot in Pennsylvania."
- MCKINLEY, D. H., Business Administration, a talk on "The Present Nervous State of Business" before the 5th annual management conference of the Pennsylvania Petroleum Association.
- MUELLER, E. W., physics, the following lectures in recent weeks:
- "Field Ion Microscopy with Atomic Resolution" at the General Electrodynamics Corp., Pasadena, Calif.
- "Observation of Defect Structures in Refractory Metals," at the Jet Propulsion Laboratory, Pasadena, Calif.
- "Surface Studies with the Field Ion Microscope" at Stanford Research Institute, Palo Alto, Calif.
- "Field Ion Microscope with Dynamic Gas Supply" with B. Wacławski, at Seventh Field Emission Symposium.
- "The Attack of Nitrogen and Water on Tungsten" with J. F. Mulson.
- "Damage to the Structure of Tungsten and Platinum by Cathode Sputtering and Alpha Irradiation."
- "Bombardment of Tungsten with 10 to 20 KV Helium Atoms," with M. K. Sinha.
- "Application of Field Ion Microscopy to Basic Research in Metallurgy" at the annual conference of the Instrument Society of America, in New York.
- NIEBEL, B. W., industrial engineering, a talk before the Columbus, Ohio, chapter of the American Institute of Industrial Engineers on "The Need for Industrial Engineering Techniques in Product Engineering."
- PENDERED, N. C., industrial arts, an address before the Industrial Education Section Meeting of the Westmoreland County Teachers' Institute, Oct. 21, on "Industrial Arts — Up or Down in the 'Sixties."
- an address before the Industrial Arts Sectional meeting of the Luzerne County Teachers' Institute at Wilkes Barre, on "Current Problems of the Public School Industrial Arts Teachers."
- ROSEN, S. H., philosophy, a talk on "An Analysis of the American Elections" to the student body of L'Ecole Supérieure des Sciences Economique et Commerciales in

Paris, where he is on leave as Fulbright Research Award.

- SKELL, P. S., chemistry, a talk on "Chemistry of Bivalent Carbon" before the New York section of the American Chemical Society.
- SPACKMAN, WILLIAM, paleobotany, a talk before the Indiana County Science Seminar for gifted high school students, on "The Origin and Composition of Coal."
- STOUT, G. J., engineering experiment, a talk before the trustees of the National Association of Home Builders Research Institute in New Orleans, on "A New Low-Cost and Improved Method of Building Dwelling House Floors On-Grade."

Books

- NELSON, C. A., and COLWELL, R. M., accounting, a textbook, "Problems for Introductory Accounting Survey."
- SMEDLEY, ELIZABETH, Institute of Public Administration, the book "Local Fire Administration in Pennsylvania," published by the Institute.

Articles and Papers

- AYRES, RUTH W., clothing and textiles, a paper titled "New Curriculum Emphases in Colleges and Universities" at the 14th annual meeting of the Eastern Region of the College Teachers of Clothing and Textiles.
- BOYLE, J. S., plant pathology, a technical paper at the annual meeting of the Northeastern Division of the American Phytopathological Society at West Springfield, Mass.
- CORSO, J. F., psychology, co-author of an article in the Oct. 1960 issue of *Electronic Design* on "Techniques in Designing for Maintainability."
- ENGGAARD, ROBERT, art, an article, "The Galleria Nazionale di Palazzo Spinoia" in the October issue of the *Burlington Magazine*.
- FROKE, M. D., journalism, an article, "Educator Encourages Audience to Watch Westerns," in the Sept.-Oct. issue of *NAEB Journal*.
- GATES, RUTH E., clothing and textiles, a paper on "Social Mobility, Status Seekers, and Clothing Behavior" at the 14th annual meeting of the Eastern Region, College Teachers of Textiles and Clothing.
- KRAUSS, F. B., Romance languages, an article, "The Battle for International Communication," in the Oct. 1960 issue of *The Classical World*.
- MURR, K. P., DARS, an article, "Dual Channel TV Aids Classroom Observation," in the Sept.-Oct. issue of *NAEB Journal*.
- SKELL, P. S., chemistry, papers on "Chemistry of Bivalent Carbon" at Rutgers University, Dow Chemical of Canada, Ltd., and Parma Research Laboratory of Union Carbide Corp., Nov. 16-18.
- WILLOWER, D. J., educational services, an article in the October issue of the *Journal of Educational Sociology*, on "Leadership Styles and Leaders' Perceptions of Subordinates."
- a paper in the Section on Administrative Theory, National Conference of Professors of Educational Administration at Western Illinois University, on "Concept Developments in Administrative Theory."
- WINTER, W. P., industrial engineering, a series of six articles on selected aspects of molding sand, to be printed in the *magazine Foundry*.
- YOUNG, R. D., physics, two papers at the Seventh Field Emission Symposium: "Study of the Interaction of Slow Electrons with Surface Atoms" and "Measurement of the Work Function of an Atomically Smooth Crystal Plane," with E. W. Mueller.

CALENDAR

Friday, Nov. 4

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Donald B. Harden, archaeologist, London Museum, on "Roman London."

Saturday, Nov. 5

Football, versus Maryland, 1:30 p.m., Beaver Stadium.

Cross country, versus Manhattan, 1:00 p.m.

Sunday, Nov. 6

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. James Luther Adams, professor of Christian ethics, Harvard Divinity School.

University Christian Association Lecture, 4:15 p.m., Helen Eakin Eisenhower Chapel. The Rev. Cornelius C. Tarplee, Intergroup Relations associate secretary, The Episcopal Church, on "Integration in the Churches."

Monday, Nov. 7

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Nelson McGeary, head, department of political science, on "Gifford Pinchot: Forester-Politician."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. A. H. Foderaro, on "Radiation Effects on Reactor Materials."

Lecture by M. W. Thring, distinguished visiting professor of fuel technology, 8 p.m., Mineral Industries Auditorium, on "Energy Sources for the Earth and for Space Travel."

Tuesday, Nov. 8

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 111 Boucke. Dr. Harold Hart, Michigan State University, on "Stable Multipositive Carbonium Ions."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Willard Thorp, Princeton University, and Robert Streeter, University of Chicago, debating: "American Studies — Pro and Con."

American Chemical Society Central Pennsylvania Section meeting, Room 111 Boucke, 8 p.m. Dr. Harold Hart, professor of chemistry, Michigan State, on "Multi-charged Carbonium Ions."

Agronomy Seminar, 4 p.m., Room 111 Tyson. Hugh A. MacWilliam, Eastern States

Farmers Exchange, and Charles Kirk, Soil Conservation Service, on "Human Factors in Professional Careers."

Election Day.

Wednesday, Nov. 9

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Nov. 10

Biological Lecture Series, 4:15 p.m., Room 112 Buckhout. Dr. E. J. Boell, Yale University, on "Enzyme Activity of Mitochondria during Amphibian Development."

Meeting of faculty of College of Home Economics, 4:15 p.m., Room 209 Home Economics South.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Riley Schaeffer, University of Indiana, on "Some Recent Developments in Boron Chemistry."

Artists Series program by Dietrich Fischer-Dieskau, 8:30 p.m., Schwab Auditorium.

NEXT MONTH

Nov. 13 — Organ recital, George Ceiga

Nov. 15 — Graduate Lecture Series, Roger Barker

Nov. 20 — Artists Series, Marcel Marceau

Nov. 22 — Thanksgiving Recess begins

Dec. 1 — Artists Series program by Societa Corelli

Dec. 5 — Social Science Research Center meeting

Dec. 6 — Christmas Carol Sing

NEED HELP?

Unusual requests for help are everyday occurrences for the office of student employment headed by John A. Yeatman. Some of the requests the office has acted on recently are:

Baby sitter for four pomeranians and a setter.

Someone to tear down a boathouse.

Male student to prepare tea every week for a colloquium.

Student to polish an airplane.

Twenty male and twenty female students to test effectiveness of advertising.

Even if your needs aren't quite as dramatic as these, the Office of Student Employment will be most happy to act as go-between for you and a student who might do some chore for you. Call the office, UN 5-6371.

News —

(Continued from page one)

live on campus, 1423 in private off-campus residences, 263 at home, 63 in trailers, and 23 in fraternities.

Half of the 320 special students live in private off-campus housing, 27 at home, 5 on campus, 3 in fraternities, and 26 in trailers.

► **ARTISTS:** Tickets for the Artists Series performance by Dietrich Fischer-Dieskau, noted baritone, will go on sale to the general public on Tuesday, Nov. 8 at the HUB desk. The recital will be given on Thursday, Nov. 10 at 8:30 p.m.

The program will feature "Lieder" of Hugo Wolf.

► **VISITORS:** S. V. Serensen and G. V. Uzhik, of the University of Moscow, U.S.S.R., visited the department of engineering mechanics last week to observe the research work in solid state mechanics and the mechanical properties of materials. Dr. Joseph Marin, head of the department, hosted the two Russian scientists, who are also including the Universities of Minnesota, Illinois, and California and Massachusetts Institute of Technology in their visit.

► **REPORT:** A research monograph issued by the Governor's Commission on Education, entitled "One End of the Log," indicates that about 80 per cent of the State's public school teachers have college degrees and 96 per cent of the high school teachers are college graduates. Teachers' salaries in the 1959-60 term averaged \$5,100, compared with \$2,930 only ten years ago. Despite this progress, it is noted, the salary schedule rates below neighboring states New York (\$6,200), New Jersey (\$5,530), and Maryland (\$5,300), but above Ohio (\$4,800) and West Virginia (\$3,610).

faculty BULLETIN

Vol. 48, No. 18

Nov. 4, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T. I. MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

CALENDAR

Saturday, Nov. 12

Meeting of National Association of Foreign Student Advisors. Talk by Dr. James M. Davis, director of International Center, University of Michigan, 10:30 a.m., HUB assembly room, on "The Cultural Significance of East-West Exchange." Panel discussion, 2 p.m., Nittany Lion Inn Conference Room, on "Community Hospitality for International Guests."

Soccer, versus Army, 10 a.m.
Mid-semester below grades due.

Sunday, Nov. 13

Organ recital by George E. Ceiga, University organist, 4 p.m., Schwab Auditorium.
Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Calvin Hazlett, moderator, United Church of India.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Fall Horse Show, sponsored by Penn State Riding Club, University Show Ring, 12:01 p.m.

Monday, Nov. 14

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Helen Adolf, professor of German, on "A Book is Born."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Rustum Roy, on "Phase Changes at High Temperatures and Their Importance in the Properties of Simple Inorganic Materials."

Tuesday, Nov. 15

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. E. C. Pollard, distinguished visiting professor of biophysics at Yale University, on "Studies of Biological Systems by means of Ionizing Radiations."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Robert W. Kautz, associate professor of business statistics, on "An Application of Game Theory in the Theory of Oligopoly."

Graduate Lecture Series, 8 p.m., Room 121 Sparks. Dr. Roger Barker, psychologist, University of Kansas, on "The Psychological

NEWS IN BRIEF

► **EXHIBIT:** An exhibit of 25 photographs of concrete shell construction designed by the internationally famous architect Felix Candela will be on display in the Hetzel Union Building gallery from Nov. 13 to Nov. 23.

Candela's concrete designs, including the unusual "umbrella" form, constitute some of the most advanced and exciting construction techniques in architecture.

► **PUNISHMENT:** Dr. George B. Vold, distinguished visiting professor of sociology and an authority in the field of criminology, will speak on the subject, "Is Capital Punishment Desirable," Thursday, Nov. 18, at 8 p.m. in Room 10 Sparks.

The lecture is sponsored by the department of sociology and anthropology.

Dr. Vold is one of the foremost penal reformers in Minnesota, one of six states to abolish the death sentence. He is author of "Theoretical Criminology," as well as numerous journal articles.

► **LIBRARY:** The University Library will observe the following hours during the Thanksgiving recess. Wednesday, Nov. 23, 9 a.m. to 5 p.m.; Thursday, Nov. 24, closed; Friday, Nov. 25, 9 a.m. to 5 p.m.; Saturday, Nov. 26, 9 a.m. to 12 noon; Sunday, Nov. 27, closed.

► **CHILDREN:** Dr. Roger G. Barker, professor of psychology at the University of Kansas, will be the speaker for the Graduate School Lecture Series on Tuesday, Nov. 15 at 8 p.m. in Room 121 Sparks.

He will speak on "The Psychological Ecology of Children in England and America."

► **WINTER COURSE:** Enrollment in the Winter Courses in Agriculture totals nearly 125, and includes students from 40 counties and 13 other states, as well as one student from Quebec, who is registered in the turfgrass course. Others have come from as far as California and South Dakota, for this course.

► **SIGMA XI:** Dr. George F. Carter, professor of geography, Johns Hopkins University, will speak on "The Earliest Indians" Thursday, Nov. 17, at 7:30 p.m., Room 112 Buckhout. The lecture is sponsored by the Society of Sigma Xi.

The talk will concern such matters as movements of early man in North America, advances of his cultural levels, problems of dating the periods of his existence in America, and field procedures in the study of the earliest inhabitants.

► **INSTALLATION:** A special service of worship for the installation of the Reverend P. Barrett Rudd as associate director and director of studies of the University Christian Association will be held in the Helen Eakin Eisenhower Chapel at 4 p.m., Sunday, Nov. 13. An informal reception will follow in the Memorial Lounge.

► **INDIA:** Five discussion seminars will be held related to contemporary India as a feature of "India Weekend" which is being observed now. The seminars will take place on Saturday, Nov. 12, in the HUB and will use three resource persons from the faculty and visiting specialists.

The India Weekend program, which is drawing Indian students from colleges all over the State, will feature B. M. Akadar, India's director of the International Monetary Fund, in an address Saturday evening.

► **EAST-WEST:** Dr. James M. Davis, president of the National Association of Foreign Student Advisors and Director of the International Center, University of Michigan, will speak on "The Significance of East-West Cultural Exchange" at 10:30 a.m., Saturday, Nov. 12, in the HUB Assembly Hall.

The talk is part of the program of the Association's Region Nine Conference but will be open to anyone interested. The afternoon program of the meeting will include a panel discussion on Community Hospitality.

► **ARTISTS:** Pantomimist Marcel Marceau will be featured in the Artists Series on Sunday, Nov. 20, at 8 p.m. in Recreation Building. Tickets will go on sale to the general public on Wednesday, Nov. 16 at 9 a.m.

► **CONFERENCE:** The department of English, Pattee Library, and the University Press are sponsors of a "Conference on Bibliography" which will be held Nov. 18 and 19 in the Nittany Lion Inn.

Among faculty members taking part in the program either as chairmen of discussion groups or as lecturers are: Ralph W. McComb, Henry W. Sams, J. Mitchell Morse, Ralph R. Shaw, Raymond Pepinsky, Haskell B. Curry, Frederick R. Matson, Hugh H. Chapman, and Simon Belasco. Secretary of the conference committee is Harrison T. Meserole.

► **ORGAN:** George E. Ceiga, University organist, will feature music by Bach, Brahms, Langlais, and Cesar Franck for his recital Sunday, Nov. 13 at 4 p.m. in Schwab Auditorium.

(Continued on page four)

Senate Minutes

Meeting of November 3, 1960

The University Senate met at 4:15 p.m. on Thursday, November 3, 1960 in Room 121 Sparks Building with Vice President L. E. Dennis presiding.

The secretary read the following correction to the minutes of the September 29, 1960 meeting as printed in the Faculty Bulletin for October 7, 1960. Change the sixth sentence in the last paragraph on page 1043 of the official minutes to read:

F. B. Krauss moved that Latin 56 be deleted from the list of automatically dropped courses and stated that the 15 students currently enrolled in Latin 43 in the Fall Semester, 1960 had indicated a desire to schedule Latin 46 in the Spring Semester, 1961, not to mention other students who might elect to do so.

The minutes were approved as corrected. One hundred eighty-nine senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (H. J. Poorbaugh), P. W. Fletcher (W. E. White), Ruth Gates (Daniel Hobbs), Ruth W. Ayres (Lillian Larson), M. S. Gjesdahl (E. E. Ambrosius), A. L. Harnett (F. M. Coombs), E. P. Hexner (Vaclav Mares), D. S. Hiller (W. A. Glenn), E. L. Keller (T. S. Goas), J. E. Livingston (H. A. Wahl), C. I. Noll (W. W. Miller), R. B. Patrick (W. J. Page), C. G. Reen (W. N. Underwood), R. W. Stone (L. N. Zimmerman), and E. P. Strong (W. M. Hench).

A letter from R. B. Dickerson naming P. M. Althouse as his alternate for any meeting he will be unable to attend.

An excerpt from the minutes of the September 30, 1960 meeting of the Board of Trustees was read as follows:

The executive committee of the Board of Trustees approved the establishment of an Honors Diploma and the awarding of such diplomas to graduating seniors who have successfully completed an Honors Program in an existing academic curriculum or major, as recommended by the University Senate.

The executive committee approved the discontinuance of the technical degrees of Fuels Engineer, Ceramic Engineering, Engineer of Mines, Metallurgical Engineer, and Petroleum Engineer as recommended by the College of Mineral Industries and the Graduate School.

A letter from R. M. Koser, Associate Registrar, pointing out revisions that will need to be made in the Regulations for Undergraduate Students made necessary by the new Four-Term academic year. The rules which are related to the responsibilities of the Dean of Admissions and Registrar are A-2, 3, 5; C-2; D-4; E-1, 4, 5, 8, 9; F-3; G-1, 4; H-21, 22, 23, 24, 25, 26; I-1, 4, 5, 9; J-2, 3; M-4, 5; O-1, 4, 8; P-12, 13, 14, 15, 17, 19, 21; S-1, 3, 5; T-1, 2, 3, 4; and X-3 and 9. The revisions suggested by Mr. Koser have been referred to the Senate Committee on Rules.

From J. J. Schanz, Chairman of the Senate Committee on Educational Policy, the following:

In September 1959, President Walker requested that the members of the Senate Committee on Educational Policy inform him as to their opinion of a proposal concerning R.O.T.C. made by a committee

of the All-University Student Cabinet. Consequently, during the next several months, the Educational Policy Committee studied the question of voluntary versus required R.O.T.C. The Committee's recommendations were sent to Dr. Walker on January 20, 1960.

After receiving the May 24th resolution of the faculty of the College of the Liberal Arts that R.O.T.C. courses be made voluntary, the committee re-examined its report to Dr. Walker. The present membership of the Educational Policy Committee has decided that this report, recommending that there be no change in the University regulations pertaining to student participation in R.O.T.C. programs, still represents its position.

The committee herewith presents copies of the report for the information of the Senate.

From Joseph G. Rayback, Chairman of the Senate Committee on Military Instruction, the following:

The Senate Committee on Military Instruction, at its meeting October 13, 1960, examined the Liberal Arts faculty's resolution of May 24, 1960, requesting that R.O.T.C. be made voluntary. The Committee also examined and discussed the report on R.O.T.C. made by the Senate Committee on Educational Policy to President Walker on January 20, 1960.

The Committee wishes to report that it concurs in general with the report and recommendations of the Senate Committee on Educational Policy.

The Committee has only one point to add: If the faculty of the College of the Liberal Arts wishes to change R.O.T.C. from a compulsory to a voluntary basis, it should show cause for the change.

From the Student Government Association a card informing the Senate of newly appointed members on the Senate Committee on Student Affairs, subcommittee on Organization Control as follows: Duane Alexander and Ruth Rilling.

New Senator

C. G. Reen elected to fill the vacancy in the College of Engineering and Architecture for the term 1960-61 created by the resignation of G. K. Gillan.

From D. V. Josephson, Chairman of the Senate Committee on Committees, the following change in committee assignment which had the approval of President Walker:

Committee on Academic Standards — C. D. Stahl to replace Hans Neuberger.

From Joseph Marin, Chairman of the Senate Committee on Research Policy, the following:

At a meeting of the Senate Research Policy Committee on October 21, it was recommended that the Senate Research Policy Committee support the library proposal of the Senate Educational Policy Committee, to be presented at the November meeting of the Senate.

From Richard J. Haber, President, Student Government Association, the following:

On behalf of the entire student body, I should like to commend the University Senate for its action in eliminating the K Rules from the Senate Regulations. Measures like this strengthen the University in the eyes of the public and also do much to elevate the position of the Penn State student.

The removal of these Class Attendance Rules will motivate the students to take more responsibility and initiative. And it will eventually lead to a more responsible and mature citizenry.

Reports of Standing Committees

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A" and moved adoption of the statement of policy on admission, effective Fall, 1961 as follows:

In-state applicants for admission as freshmen to baccalaureate degree programs who are in the first fifth of their high school class shall be admitted without examination. Those who are in the second, third, fourth, or fifth fifth of their high school class shall be required to present results of a College Entrance Examination Board Scholastic Aptitude Test taken in their senior year.

The motion was seconded. A. W. VanderMeer asked whether the Committee had given consideration to an alternative procedure requiring the S. A. T. test as a basis for selecting both the first and second fifth students. Mr. Stoner stated the Committee had given this consideration and intended to spend a considerable amount of time during the year in studying the admission problem further. The Committee would welcome suggestions on how to meet the many related problems.

H. M. Davison quoted from the General Catalog as follows:

On July 2, 1862, President Abraham Lincoln signed the Morrill Land-Grant Act offering each state free public land which they could sell to endow institutions of higher learning where "the leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts . . . in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Mr. Davison felt that the proposed policy on admission was denying the true purpose of the University and moved an amendment that this proposed policy be limited to one year. There was no second to the motion. The motion to adopt the recommendation of the Senate Committee on Admissions was passed. The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, explained the procedures of the Committee for the benefit of new members of the Senate. He stated that the Senate had taken action requesting that all course and curriculum proposals be circulated two weeks before the meeting of the Committee. The Committee has met four consecutive weeks and has not finished its work concerning the proposals circulated under date of September 27, 1960. Under date of October 27 a new list of proposals were distributed. Mr. Shelley called the Senate's attention to the "Announcement" in this report that

revised majors and curriculums, adjusting all programs to the 12 term system, should be submitted to the Committee preferably before Christmas but at latest by mid-January.

Mr. Shelley then presented the report which had been distributed with the agenda as Appendix "B" and moved adoption of Items I-A, I-B, and IV. The motion was seconded. A. H. Brayfield, Head of the Department of Psychology, spoke against the proposal I-B which would alter Item 16 of the report by deleting psychology from the General Graduation Requirement, Bachelor of Arts Degree. He stated:

I should like to take the occasion of the recommendations of the Senate Committee
(Continued on page four)

German theatre thrives

IMMEDIATELY after the end of hostilities in Europe in 1945, Allied occupation forces were somewhat surprised to get requests from occupied Germany to reopen the theatres as quickly as possible.

"It really shouldn't have been surprising," says Dr. Walter H. Walters, head of the theatre arts department, "because Germans have a strong tradition of theatre-going.

"Today in West Germany the enthusiasm for the theatre is unbelievable, and the drive and energy being demonstrated in the theatre matches that which is being used to rebuild the entire country. You have to be there to know it."



Dr. Walters

Dr. Walters was there, for a month, along with six other persons having various connections with the theatre in this country, and got an intensive briefing on the state of the theatre in West Germany today. They were guests of the West German government, in an exchange program which is designed to give Americans an opportunity to see for themselves the life and institutions of the country.

"It was an exciting experience for me, partly because I hadn't been to Europe before, but also because it gave me a chance to see what can be and is being done in a subsidized theatre," Dr. Walters explains.

"Germans consider theatre part of their education and through support of the theatre by the federal and state governments, the average person is able to see many plays, operas, and shows which he might not otherwise for reasons of cost. Tickets are very inexpensive."

In every city and in many towns the theatres maintain their own complete staffs, from "Intendant" to stagehand, and including singers, dancers, actors, orchestra, soloists, etc.

The "Intendant" is master of the theatre; he is manager, director, cultural chief, and controller of the finances. His word is law regarding the selection of productions and for the closing of a show.

Every member of the staff has a social security which virtually guarantees him a job for life, eliminating the risk of the American stage.

"Of course a person might be dismissed in exceptional cases," says Dr. Walters, "but the unions are very strong and the Intendant must recog-

nize their strength. I believe the staff member earns tenure after 10 years."

Post-war theatre construction has boomed in West Germany while at the same time in America there has been little theatre building. Of the 129 theatres now operating, 89 are completely new, and, although wisely limited in size for artistic reasons, they are very elaborate and costly.

"Not all are as complex as the one in Cologne in which we saw a performance of the opera 'Turandot', however," Dr. Walters explains. "At one point in the opera there were 200 people on the stage; the traffic problem in our theatres would have been terrific.

"The stage had a depth of about 135 feet and instead of moving the performers on stage, the floor itself moved forward, with the performers in place.

"The costumes and settings were dazzling and everything about the production was extraordinary."

During his stay, Dr. Walters saw some 25 shows. Many were of foreign origination — France, Switzerland, and American — because there is a serious shortage of writers in Germany.

"The Germans have borrowed liberally from other countries and have often produced the world premiere of a play — *The Twelve Angry Men* was done in Germany first. I saw a production of a new Saroyan play in Berlin which has not yet been produced here."

American discipline

German directors expressed an admiration for the discipline and drive of the American theatre (which seems unusual in view of the reputation Germans have for discipline). Also their stage shows lack the spontaneity of Broadway.

"About a third of the year's productions in any one theatre are taken from the classics but generally produced modernly," Dr. Walters says. "Another third consists of 18th and 19th century plays and the remainder are contemporary."

In Germany, "the play's the thing" is a truism in the sense that actors

take second billing to the play. Star-worship is much less evident in Berlin than in New York and the success of a production depends less on obtaining "name" performers than on the total production, including all actors, directing, lighting, settings, costuming, etc.

Low prices

Theatre prices are about 100% higher than movie prices, but they are lower than anywhere else in the world. Every ticket, whether the seat is occupied or not, is subsidized by approximately 10 Deutschmarks. Subscribers to the Federation of Free People's Stages, with a membership of about a half million, get a 30-40% discount in prices. A regular subscriber or season ticket holder receives a 20% cut in price and the remainder, sold at the box office, pay the full price. Students pay 1.10 Deutschmarks regardless of where they sit.

All productions are scouted by teachers who rate plays according to their appeal for various age groups. They discuss these productions with the students before and after production. Once a year attempts are made to convene groups of students to learn what impressed them most.

The Federation distributes bulletins on each production to acquaint the membership with some background about the play or author. Its aim is to get people into the theatre, and especially people who have never been there before. In West Berlin alone there are 120,000 members, some 20,000 from East Berlin.

In Essen, the theatre gives about 310 performances per year, with 50 different plays. Each year a dozen new productions will be introduced, to replace those which have been in the repertory for from three to five years.

"In the Dusseldorf industrial area there is some competition between theatres," Dr. Walters says, "in that the same play may run at two to three houses at the same time. Many people and all the critics will go to all three theatres, just to make comparison of the interpretation of a manuscript."

Dr. Walters' trip, although highly intensive, included some other activities. The conversations with refugees and expellees at Marienfelde, near Berlin, were a high spot, and the sightseeing, which included the restored bombed-out areas, was revealing.

"The drive and energy of the people of West Germany is hard to believe. They simply refuse to stand still."

Minutes —

(Continued from page two)

tee on Courses of Study to make what, hopefully, may be a useful interpretative statement of the nature of psychology as a discipline, since the Committee's recommendations with respect to psychology appear to reflect something of the ambiguity that frequently falls to psychology's lot and similarly surrounds such disciplines as geography — which has both physical and social science connotations — and history — which partakes of both of the social sciences and of the humanities.

My current interest stems from two actions. First, the appropriate Liberal Arts Committee last spring removed psychology as a graduation requirement and, in its revision of those requirements for both the B.A. and B.S. degrees, did not list psychology as an alternative subject to meet the Social Science requirement. I understand that this action was taken, not because of a lack of understanding of the social science aspects of psychology, but because of considerations internal to the functioning of the College of Liberal Arts. The cognizant Liberal Arts Committee recommended, and the faculty concurred, that psychology be listed as one of the alternative subjects meeting the biological science requirements.

The Senate Committee on Courses of Study now recommends that psychology be deleted as relevant to the biological science requirement. I interpret this action as resulting from some misunderstanding of the nature of the discipline (although the department has had no contact with the Committee itself).

Thus, for clarification, let me put it briefly. Psychology's early roots were in physiology and philosophy. It later took on a social science orientation at the same time that it was reinforcing its ties with the biological sciences. It is today a bio-social enterprise.

The social science aspects of psychology on this campus are well-known. For example, in recent years it has enjoyed a most fruitful relationship with economics particularly at the level of basic investigation.

Apparently its biological cast is not as well understood. This fall, the department opened up twelve rooms in Hillcrest as a Laboratory for Physiological and Com-

parative Psychology. A small surgery is now being installed and important histological work is underway. Mr. John Warren joined the faculty this Fall as associate professor of psychology and moved his cat and primate colonies here from Yerkes Lab. Approximately half of Professor Warren's work, including some 50 publications, deal with brain lesion work. Professor Hale, who holds professorial appointment in animal behavior also holds a joint appointment in psychology. Others of our faculty, including Professors Hall, Grosslight, Corso, and Hoffman, do work that is biologically grounded and currently some \$125,000 of NSF and USPH grant money supports their research. The introductory experimental psychology laboratory course is natural science oriented — to the acute discomfort of some students who seek to pursue a disembodied psyche. For many years the department has offered a year sequence in physiological as well as a year sequence in comparative psychology. Our biggest handicap is that our students have been unable to get sufficient work in human physiology outside the department.

But it should not be necessary to dilate further.

Although it is startling to discover that — in view of a Senate committee — psychology apparently qualifies neither as Social or Biological Science, I would find it personally distasteful to urge the inclusion of psychology in any University course of study. It is available, as desired, as part of the basic intellectual equipment of 20th century man.

Several years ago the American Physiological Society, under the distinguished leadership of Professor Ralph Gerard, published a self-survey of physiological science. After 372 pages of discussion, the report concludes that physiology is defined not as what physiologists do — but as what physiologists say physiology is.

I have taken this opportunity to say — on behalf of the more than 50 psychologists at Penn State — what psychology is.

Mr. Stoner pointed out the new proposal limits the mathematics requirement to three credits. R. C. Maloney explained that the purpose of the amendment was to bring the requirements in line with the "Callenbach Report" as adopted by the Senate some years ago. Leon Gorlow asked the chairman to state the reason for deleting Psychology from the requirements, and Mr. Shelley re-

plied that in the discussions by the Committee it was felt that psychology should be listed under both the biological sciences and the social sciences or not listed at all. This suggestion was referred to the College of the Liberal Arts and the College presented the Committee with the recommendation to delete psychology from the requirements. The motion was passed. Mr. Shelley stated that Items II and III were for the information of the Senate. The complete report is on file in the office of the secretary.

(Continued next week)

Calendar —

(Continued from page one)

Ecology of Children in England and America."

Plant Science Club meeting, 7:30 p.m., Room 11 Tyson. Dr. Ruth C. Silva, professor of political science, on "Post-mortem of Recent National Elections."

Wednesday, Nov. 16

Psychology Colloquium, 12 noon, dining room "A", Hetzel Union Building. Douglas N. Jackson, assistant professor of psychology, on "Response Styles and Problems of Assessment."

Graduate Mining Seminar, 3:20 p.m., Room 304 Mineral Industries. F. D. Hoyt, on "The Mining Engineer and Decision Making."

Thursday, Nov. 17

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Riley Schaeffer, professor of chemistry, University of Indiana, on "Some Recent Developments in Boron Chemistry."

Philosophy Colloquium, 4:15 p.m., Room 209 Willard. Dr. Richard B. Brandt, professor of philosophy, Swarthmore College, "The Current Scene in Moral Philosophy."

Sigma Xi Lecture, 7:30 p.m., Room 112 Buckhout. Dr. George F. Carter, professor of geography, Isaiah Bowman Department of Geography, Johns Hopkins University, on "The Earliest Indians."

Friday, Nov. 18

Physics Colloquium, 4:15 p.m., Room 117 Osmond Lab. Dr. Frank Blatt, associate professor of physics, Michigan State University, on "Infra-red Absorption in Semi-conductors."

Fine Arts lecture by Martin Weinberger, distinguished visiting professor of art and architectural history, 8 p.m., HUB assembly room, on "Connoisseurship and Forgery in the Fine Arts."

faculty BULLETIN

Vol. 48, No. 19

Nov. 11, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Fellowships

SUMMER FELLOWSHIPS

The Graduate School Office urges faculty members to please remind any outstanding graduate students who have been teaching assistants, or instructors, for one academic year in the physical, biological, mathematical, mineral, engineering and other sciences including anthropology, psychology (excluding criminal), geography, and certain selected social sciences, that December 9 is the deadline by which complete application materials for the National Science Foundation Summer Fellowships for Former Teaching Assistants for the Summer of 1961 must reach the Graduate School Office, 104 Willard Building.

These awards are for 8 to 12 weeks study in the summer, with a weekly stipend of \$75 per week and tuition paid by the Foundation.

NSF POSTDOCTORAL FELLOWSHIPS

The Graduate School Office wishes to call the attention of the faculty and graduate students who will have received their doctorates during 1961, to three recent announcements of National Science Foundation Fellowships.

A SECOND AWARDING OF POSTDOCTORAL NSF FELLOWSHIPS

Application Deadline — December 19, 1960
About 150 of these fellowships will be awarded to young scientists March 15, 1961, who have demonstrated aptitude for advanced training in the sciences, and as of the beginning of their fellowship will have earned the doctorate or have received research training and experience equivalent to the degree. Tenure may be from six months to two years.

The annual stipend is \$4500 plus an allowance for dependents and a limited cost of travel and research expense allowance. Office cards to use in obtaining application

(Continued on page three)

NEWS IN BRIEF

► **AFRICA:** The Reverend Theodore Braun, program associate of the University Christian Association, will give a lecture-discussion on "Cross-Roads Africa" Sunday, Nov. 20, at 6:30 p.m. in Room 212 of the Helen Eakin Eisenhower Chapel. It is sponsored by the UCA Graduate Fellowship.

Braun was co-leader of a group of United States students who worked with students of Ghana on projects such as building a three-room cement block schoolhouse the past summer. Sponsored by the East Harlem Protestant Parish, the work group included 180 students who completed projects at Pram-Pram and Shia with the help of Ghanians.

► **BEHAVIOR:** The fall meeting of the Social Science Research Center will be held on Monday, Dec. 5 in dining room "A", of the Hetzel Union Building, at 7 p.m. Dr. David E. Davis, professor of zoology, will speak on "Behavioral Devices in the Struggle for Space."

► **CONFERENCE:** Verner W. Clapp, president of the Council on Library Resources, Inc., will be the banquet speaker tonight for the Conference on Bibliography, sponsored by the Department of English, University Library, and University Press. The conference concludes tomorrow.

Clapp will speak on "The Role of Bibliography."

► **EXHIBIT:** An exhibit consisting of pictures, books, and manuscripts is now on display in the lobby of Pattee Library to commemorate the 50th anniversary of the death of Leo Tolstoy, Russian writer and philosopher.

► **LOWENFELD:** The fall issue of "Everyday Art" honors the late Dr. Viktor Lowenfeld, head of the department of art education until his death on May 25. The magazine designates this issue as the "Viktor Lowenfeld Memorial Issue" and includes quotations from his book, "Creative and Mental Growth."

Dr. Edward L. Mattil, now head of the department of art education, is editor of the publication.

► **BURSAR:** The Office of the Bursar on the ground floor of Willard Building will be closed each Saturday from Nov. 26 to Dec. 31.

► **CHRISTMAS:** Orders from University departments for Christmas trees will be accepted by the department of maintenance and utilities until Dec. 12. An interdepartmental transfer form must be used in ordering and the

size of tree and delivery date and location should be indicated.

The prices are as follows: 3-4 ft. tree, \$2.50; 5-7 ft., \$4.00; 8-10 ft., \$6.00; 12 ft., \$7.00; 14 ft., \$9.00; and greens by the bushel, \$1.00.

All trees and greens used in campus buildings must be fireproofed. Fireproofing will be done by the maintenance department, for campus organizations only, between 1 p.m. and 3 p.m. on Dec. 1, 6, 8, 13, and 15. Each organization is responsible for delivery and pickup of its own tree at the Landscape Maintenance Depot, the small building east of the Chemical Engineering Laboratory.

► **ARTISTS:** Tickets for the concert by the Societa Corelli, chamber orchestra, on Dec. 1 will go on sale to the general public on Tuesday, Nov. 29 at the HUB desk. The performance will be held in Schwab Auditorium at 8:30 p.m.

The next performance on the Artists Series is to be given by pantomimist Marcel Marceau on Sunday, Nov. 20 at 8 p.m. in Recreation Building.

► **CHEMISTRY:** Dr. Nelson J. Leonard, professor of chemistry and head of the division of organic chemistry at the University of Illinois, will address the Central Pennsylvania Section of the American Chemical Society monthly meeting on Thursday, Dec. 1 at 8 p.m. in Room 111 Boucke.

He will speak on "New Findings in Transannular Interaction."

► **SLIDES:** Dr. George F. Johnson, professor of agricultural extension, will speak on "Some Common Qualities of Successful Pictorial Slides" before the State College Color Slide Club at its meeting on Monday, Nov. 21, at 7:30 p.m. in the Mineral Industries Auditorium.

► **FORGERY:** Martin Weinberger, distinguished visiting professor in art and architectural history, will speak on "Connoisseurship and Forgery in the Fine Arts" in the HUB assembly room at 8 p.m. tonight.

A recognized authority in the field, Weinberger has collected many photos and slides on forgeries in the fine arts, many of which will be used in the talk.

► **PLAYERS:** Tennessee Williams' play, "Summer and Smoke" will be the next production at Center Stage, opening Dec. 2 and continuing each Friday and Saturday through Jan. 14. Ellis Grove, instructor in theatre arts, is director.

Senate Minutes

Meeting of November 3, 1960

(Continued from Nov. 11th issue)

The SENATE COMMITTEE ON EDUCATIONAL POLICY's letter to Dr. Walker dated January 20, 1960 regarding VOLUNTARY VERSUS REQUIRED R.O.T.C., which had been distributed with the agenda as appendix "C" for the information of the Senate is as follows:

Dear Dr. Walker:

This letter is in response to your request to the Senate Committee on Educational Policy for an opinion concerning the All-University Student Cabinet proposal that male student participation in the Basic R.O.T.C. programs of the Air Force, Army and Navy be on a voluntary rather than required basis for first and second year students.

The views of the Committee concerning the proposal, and the Committee's recommendations pertaining to some of the issues involved are contained in the remainder of this letter.

1. Voluntary Participation in the Basic R.O.T.C. Programs

The Committee has studied the implications of this proposal very carefully. Conversations have been held with representatives of the three services on the campus, with representatives of the Army in the Pentagon, Washington, D.C., and with representatives of the Air Force at the Air University, Maxwell Air Force Base, Montgomery, Alabama. The Committee has also reviewed carefully the article in *Higher Education* (U. S. Office of Education publication), "The Future of R.O.T.C.," by the Honorable Charles C. Finucane, Assistant Secretary of Defense (Manpower, Personnel and Reserve) of the U. S. Department of Defense which appeared in the December 1959 issue.

From our studies and discussions we have reached these conclusions:

a. The military services regard the R.O.T.C. programs as essential to the national military establishment as primary sources for the procurement of career officers for the active forces and for the preparation of officers to serve the reserve components.

b. The basic 2-year R.O.T.C. programs are considered to be educationally desirable for young men who may, in an emergency, be called to service though they may not have elected — or have been selected for — the advanced R.O.T.C. programs. For those who choose, and are selected for, the advance programs, the basic programs are essential.

c. For the college educated man to be familiar with the nature of military education and military organization through participation in the R.O.T.C., and to be able to interpret this rationally in relationship to the citizen's obligation for service, is considered by the Committee to be important.

d. At the present time, the circumstances of international tension and the role of the United States in world affairs seem, to the Committee, to indicate that the present policy of the Trustees requiring all eligible young men enrolled in the University to participate in basic R.O.T.C. education should remain unchanged.

2. R.O.T.C. Curriculums

Each of the Armed Services is currently reviewing its R.O.T.C. curriculum with a view of making it more

compatible with other aspects of a college curriculum. Some changes have been made in both the Air Force and Navy programs and the Army is expected, soon, to announce changes also. These changes, many of which involve the use of existing college courses to meet R.O.T.C. requirements, will ameliorate, to some extent, the tendency to view R.O.T.C. as something superimposed as an overload on the R.O.T.C. student as a requirement for graduation.

There is a trend, too, in using the college faculty to teach, in whole or in part, courses in the R.O.T.C. curriculum for which they are considered qualified. Such joint participation by civilian and military members of the college faculty in teaching R.O.T.C. courses relieves, in part, the criticism that the R.O.T.C. is not really a collegiate program. Further attention to the content of R.O.T.C. courses, including the "leadership laboratory or drill and ceremonies period," with the purpose of transferring to summer training periods those activities which can better be accomplished there than on the campus, will further improve the R.O.T.C. program in the minds of many faculty members.

It is the belief of the Educational Policies Committee, therefore, that the proposal that R.O.T.C. be put on a voluntary basis because the R.O.T.C. curriculums are inappropriate is not sufficient to warrant a change in policy.

3. R.O.T.C. Support

Mr. Finucane, Assistant Secretary of Defense, in the article referred to earlier in this letter, stated that it was the policy of the Defense Department to leave to the authorities at the educational institution concerned, the determination as to whether or not R.O.T.C. is to be compulsory. Further, he wrote, "The Department of Defense will provide adequate personnel and equipment to support the decision of the institutional authorities."

The Educational Policy Committee believes that it would be appropriate for the R.O.T.C. programs, in terms of their stated purposes and in terms of the national interest, to receive even further support from Defense funds. This should, we believe, extend to payment of total costs including those for military instruction, rental of space furnished, and to care for overhead expenses. To say it another way, we believe that the basic R.O.T.C. program of military education required and conducted in the national interest, and the advanced R.O.T.C. program designed to furnish qualified career officers for the services and reserve officers for the reserve components maintained at Federal expense, should not be supported by Commonwealth or University funds. These latter funds, now used in support of the R.O.T.C., could be spent on University instruction other than military, which could, of course, help to furnish better instruction for both military and nonmilitary students.

4. Recommendations

a. The Committee recommends that there be no change at this time in the University regulations pertaining to student participation in R.O.T.C. programs.

b. We recommend that provision be made by the military services for faculty participation in the development of courses to be included in the R.O.T.C. programs.

c. We recommend that the faculty cooperate in teaching those R.O.T.C. Courses for which their training and experience is appropriate.

d. We recommend that each College of the University consider the R.O.T.C. programs as important and integral parts of the University's curriculum, and that in each college the faculty consider ways in which students, who are selected for the advanced R.O.T.C. programs, may have opportunity to complete these programs with the least complications of curriculum conflict or overload.

Senate Committee on Educational Policy

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the POLICY STATEMENT ON UNIVERSITY LIBRARY which had been distributed with the agenda as Appendix "D", and moved adoption of the three recommendations as follows:

1. It is the policy of The Pennsylvania State University to maintain a library in quality and quantity equal to other land-grant and state universities of similar enrollment and prestige.
2. To this end the Educational Policy Committee recommends to the Senate that a standing Senate Committee on the University Library be established which will review continually the status of the library and which will have as ex-officio members the Vice President for Academic Affairs, the Vice President for Research, and the University Librarian.
3. The Educational Policy Committee further suggests, through the Senate, that the President consider the possibility of establishing a parallel committee on the Board of Trustees, thus involving that body directly in this important aspect of maintaining University prestige and excellence.

The motion was seconded. R. W. McComb stated that we already have a University Advisory Committee made up of representatives of the various Colleges. He agrees that a Senate Committee on the University Library should be set up but does not think we need a Trustee Committee. The motion was passed. The Chairman referred the action to the Senate Committee on Rules for the development of a specific proposal for the establishment of the new committee.

Mr. Schanz then presented the report on POLICY FOR CLASS ATTENDANCE AT THE PENNSYLVANIA STATE UNIVERSITY which had been distributed with the agenda as Appendix "E". He stated that the action taken by the Senate at the last meeting resulted in there being no policy concerning class attendance. The Committee thought it necessary to agree upon a positive statement of policy which would serve as a guide but would not constitute a new rule. The motion was seconded. Monroe Newman moved a substitute motion consisting of the first sentence of the second paragraph excluding the first word "accordingly." The motion would read:

It is the policy of The Pennsylvania State University that class attendance by students be encouraged and that all instructors organize and conduct their courses with this policy in mind.

Hans Neuberger spoke in favor of, and A. W. VanderMeer against, the substitute motion. L. P. Guest moved to amend the substitute motion to include a second sentence:

Instructors shall provide opportunity to make up work for students who miss class for regularly scheduled University-approved curricular and extra-curricular ac-

(Continued on page four)

Fellowships —

(Continued from page one)
materials are available at the Graduate School Office, 106 Willard. These office cards must be sent to Washington to obtain application materials. ACT AT ONCE IF INTERESTED.

NATO POSTDOCTORAL FELLOWSHIPS
Application Deadline — December 19, 1960

Under the North Atlantic Treaty Organization program fellowships for foreign study in a country that is a member of NATO are being continued to assist in a closer collaboration among the scientists of the various nations. On April 3, 1961, about 50 of these fellowships will be awarded to citizens and nationals of the United States. Eligibility requirements are about the same as for the postdoctoral fellowships just mentioned. Tenure is for an academic year or a calendar year.

The annual stipend and allowances are much as those above, except that a sum not to exceed \$1500 will be paid for round-trip travel for self and dependents to country in which the fellow studies. A few sets of application materials are available at the Graduate School Office, 106 Willard. These must reach The Fellowship Office, National Academy of Sciences - National Research Council, 2101 Constitution Ave., N.W., Washington 25, D.C., by the deadline date above. Further information is available at the Graduate School Office.

O.E.E.C. FELLOWSHIPS

Application Deadline — January 6, 1961

In order to assist scientific and technical institutions to incorporate more quickly into their own advanced teaching and research programs the most recent developments in their own and other countries, the Organization of European Economic Cooperation sponsors a program of O.E.E.C. Fellowships. Each member country administers the O.E.E.C. Fellowship program for its own nationals. NSF is administering the program for the United States. This program permits INSTITUTIONS to nominate for these fellowships, senior scientists, mathematicians and engineers on their staffs to study new techniques and developments at advanced research and educational institutions primarily in O.E.E.C. countries. Approximately 25 such fellowships will be awarded April 17, 1961, to selected applicants nominated by their institutions. Minimum tenure is eight weeks, average tenures will be four to six months. Tenure may start any time between April 30, 1961 and March 1, 1962.

The Senior Visiting Fellow will receive a subsistence allowance of \$10 per day of tenure and a travel allowance for round-trip air-tourist transportation. No allowance is given for dependents. The Fellow may receive his regular salary or leave allowance from his institution while on the fellowship.

An institution may nominate an individual who (a) is a citizen or national of the U.S., (b) has full professional standing in the field with which his fellowship will be concerned, (c) has at least five years experience in research, teaching or other relevant professional work, and (d) has the linguistic abilities necessary for learning and for profitable discussion with colleagues in the country. More information may be obtained from the Graduate School Office, 106 Willard.

NO ISSUE
There will be no issue of the Faculty Bulletin next week because of the Thanksgiving recess. The next issue will appear on Dec. 2.

Items of interest

Elected or Appointed

- BRAYFIELD, A. H., psychology, elected to membership on the Education and Training Board of the American Psychological Association.
- BUCK, R. C., rural sociology, elected president, Pennsylvania Sociological Society for 1960-61.
- FINCH, H. A., philosophy, a paper, "Confirming Power of Observations Metricized for Decisions among Hypotheses," Part II, Philosophy of Science, Oct. issue.
- JORGENSEN, R. N., forestry, appointed to the National Education Committee of the Forest Products Research Society.
- MATSON, F. R., Liberal Arts, appointed a member of the International Commission

- on Glass as representative of the American Ceramic Society.
- NOLAN, FRANCENA L., rural sociology, elected secretary of the Pennsylvania Sociological Society.
- RAABE, MARGARET C., speech, elected secretary-treasurer of the Pennsylvania Speech and Hearing Association.
- SEIGENTHALER, B. M., clinical speech, elected president of the Pennsylvania Speech and Hearing Association.

Honors and Awards

- BOCHY, J. A., county agent, winner of national information award of the National Association of County Agricultural Agents.
- FOWLER, E. P., KOPPENHEFFER, C. E., and THURSTON, J. S., county agents, received distinguished service awards of the National Association of County Agricultural Agents.

CALENDAR

Friday, Nov. 18

- Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109 Armsby.
- Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Dr. A. E. Owen, Westinghouse Research Labs, on "The Electrical Properties of Glass."
- Physics Colloquium, 4:15 p.m., Room 117 Osmond Lab. Dr. Frank Blatt, associate professor of physics, Michigan State University, on "Infra-red Absorption in Semi-conductors."
- Fine Arts lecture by Martin Weinberger, distinguished visiting professor of art and architectural history, 8 p.m., HUB assembly room, on "Connoisseurship and Forgery in the Fine Arts."

Sunday, Nov. 20

- Artists Series program by pantomimist Marcel Marceau, 8 p.m., Recreation Building.
- Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
- Roman Catholic Mass, 9 a.m., Schwab Auditorium.
- Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. William Muehl, professor of practical theology, Yale University Divinity School.

Illustrated lecture-discussion by Rev. Ted Braun on "Cross-Roads Africa" sponsored by the UCA Graduate Fellowship, 6:30 p.m., Room 212, Helen Eakin Eisenhower Chapel.

Monday, Nov. 21

- Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Walter Wiegand, director of the division of physical plant planning and construction, on "Planning Academic Buildings."
- State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Dr. George F. Johnson, professor of agricultural extension, on "Some Common Qualities of Successful Pictorial Slides."
- Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Rustum Roy, on "Phase Changes at High Temperatures and their Importance in the Properties of Simple Inorganic Systems."
- College of Education faculty meeting, 4:15 p.m., Hetzel Union Building assembly room.

Tuesday, Nov. 22

- Thanksgiving recess begins, 9:50 p.m., ends Nov. 28, 8 a.m.
- Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Jan S. Prybyla, assistant professor of economics, on "Economic Writings of George Ramsay."

Agronomy Seminar, 4 p.m., Room 111 Tyson. R. S. Apfelbaum, Seaboard Seed Co., H. Joseph Hull, New Holland Machine Co., and R. E. Wagner, American Potash Institute, on "Human Factors in Professional Careers."

Monday, Nov. 28

- Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. John Hoke, on "Behavior of Metals at Elevated Temperatures."
- Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. John F. Corso, professor of psychology, on "How Well Do We Hear?"

Tuesday, Nov. 29

Agronomy Seminar, 4 p.m., Room 111 Tyson. Dr. W. H. Garman, National Plant Food Institute, and Francis A. Raymaley, American Cyanamid Co., on "Human Factors in Professional Careers."

Wednesday, Nov. 30

- Psychology Colloquium, 12 noon, dining room "A", Hetzel Union Building. Dr. Dale Harris, professor of psychology.
- Graduate Mining Seminar, 3:20 p.m., Room 304 Mineral Industries. Sathit Tandannand, on "Stress Distribution in Rock Vicinity of the Bit Edge."
- Chess Club meeting, 7 p.m., HUB card-room.

Thursday, Dec. 1

- Artists Series program by Societa Corelli, chamber orchestra, 8:30 p.m., Schwab Auditorium.
- Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. W. W. Meinke, University of Michigan, on "Activation Analysis with a University Research Reactor."

Friday, Dec. 2

Opening night of Center Stage production of "Summer and Smoke," 8 p.m.

Next Month

- Dec. 5 — Social Science Research Center meeting, 8 p.m.
- Dec. 6 — Christmas Carol Sing, Chapel courtyard, 9 p.m.
- Dec. 8-10 — Players show, Oedipus Rex.
- Dec. 8 — Meditation Chapel Choirs concert, 4:15 p.m.
- Dec. 9 — Penn State Singers concert, HUB, 9 p.m.
- Dec. 13 — Chapel Choir, Lessons and Carols, 8 p.m.
- Dec. 17 — Chapel Choir Candlelight Service, 10:55 p.m.
- Dec. 21 — Christmas Holiday begins at noon.

Senate —

(Continued from page two)

tivities (such as field trips, debate trips, choir tours, and athletic contests). The motion was seconded. Mr. Newman spoke against the substitute amendment. The question on the amendment to the substitute motion was defeated. The vote on the substitute motion was 79 for and 102 against. The original motion was passed by a vote of 114 for and 62 against. The report is as follows:

POLICY FOR CLASS ATTENDANCE AT THE PENNSYLVANIA STATE UNIVERSITY

The faculties, staff, and other resources of the University are furnished for the education of students who attend the University. A class schedule is provided for students and faculty so that a reasonably orderly arrangement for instruction will be facilitated. The fact that classes are scheduled is evidence that the faculty believes class instruction is important. It is implicit, therefore, that class attendance is important for the benefit of students.

Accordingly, it is the policy of The Pennsylvania State University that class attendance by students be encouraged and that all instructors organize and conduct their courses with this policy in mind. A student should attend every class for which he is scheduled and should be held responsible for all work covered in the courses taken. In each case, the instructor should decide when class absence constitutes a danger to the student's scholastic attainment and should make this fact known to the student at once. A student whose irregularity in attendance causes him, in the judgment of the instructor, to become deficient scholastically may run the risk of receiving a failing mark or receiving a lower grade than he might have secured had he been in regular attendance.

Instructors should provide, within reason, opportunity to make up work for students who miss class for regularly scheduled University-approved curricular and extra-curricular activities (such as field trips, debate trips, choir tours, and athletic contests). However, if such scheduled trips are con-

sidered by the instructor to be hurting the student's scholastic performance, he should present such evidence for necessary action to the head of the department in which the course is offered and to the dean of the College in which the student is enrolled.

NEW BUSINESS

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented a report from the Committee concerning an amendment to the By-Laws to establish a standing committee on the Library. Irvin Kochel requested that a representative of a Commonwealth Campus be made a member of the Committee. Subsequent to this Mr. Anderson added "one director of a Commonwealth Campus" to his motion as presented to the secretary in writing. The motion, which is to lie on the table for one month, is as follows:

The By-Laws of the Senate be amended to include under Article II, Section 1; Standing Committees - membership, *Library*, one member from each of the Undergraduate Colleges and from the Graduate School, and one director of a Commonwealth Campus; and the Vice President for Academic Affairs, the Vice President for Research, and the University Librarian *ex officio*. and to include under Article II, Section 2; Standing Committees - duties, *Library* — It shall be the duty of the Committee on the Library to make policy recommendations concerning the status and function of the library in the University.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

E. B. VanOrmer referred to the earlier discussion concerning the deletion of psychology in the Liberal Arts requirements. He pointed out that psychology was not listed in either the biological science or the social science options of the general requirements for the Bachelor of Arts degree.

He stated that he wished to support the statement of his department head regarding this matter, and for the information of the Courses of Study Committee and the College of the Liberal Arts, he wished to point out that the Society of the Sigma Xi, which, in the sciences, is the counterpart of Phi

Beta Kappa, states in its national constitution that the science fields recognized by the society are: mathematics, physical sciences, earth sciences, biology in its various branches *including psychology*, anthropology, medicine, and engineering.

Duane Alexander, student member of the Senate Subcommittee on Organization Control read the following excerpts from a letter sent by Charles C. Finucane, assistant secretary of defense for manpower, personnel, and reserve, dated February 15, 1960 to the president of the American Council on Education, Arthur S. Adams:

In view of current deliberations concerning compulsory basic R.O.T.C. now going on at many of our universities, I thought it would be helpful to give a full explanation of the Department of Defense policy on this subject.

The Department of Defense policy is to leave the decision entirely up to the educational authorities concerned. The Department will support the decision of the institutional authorities by furnishing the necessary instructors and equipment. It might be said that the Department of Defense favors "freedom of choice" on this question. I would now like to explain just why this policy was chosen. . . .

In order for the Department of Defense to support a policy of favoring compulsory basic R.O.T.C., a military requirement should exist for such a policy. Such a military requirement does not exist. This statement is based on an objective analysis of two basic considerations; namely, the qualitative and quantitative requirements. Compulsory basic R.O.T.C. is not needed to meet quality standards nor is it needed to produce the number of officers required. . . .

From the above discussion, it is concluded that a military requirement does not exist for a compulsory basic R.O.T.C. program and that the Department of Defense has no basis for favoring such a program. . . .

The next regular meeting of the Senate will be on December 1, 1960. The agenda will be distributed on November 17, 1960. The meeting adjourned at 5:30 p.m.

Robert G. Bernreuter
Secretary

faculty BULLETIN

Vol. 48, No. 20

Nov. 18, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Calendar problems

A proposal by the department of military science (Army ROTC) is currently being studied by several committees of the administration and faculty.

The proposal, presented by Col. Ellis B. Richie, considers the problem of the basic and advanced programs for the Four-Term Year and also the weekly schedule of classes. Under the proposal, students would be able to take an accelerated program and complete basic work in five terms. Under the regular academic program, he would require six terms for completion of basic military instruction.

One of the significant developments in the new program is a reduction in the number of "contact hours" to be required of the student, under the provisions of the Defense Department. The total reduction for the four-year program amounts to 120 hours, which may be "made up" in courses in academic departments of the University.

The new weekly schedule would presuppose doing away with "Thursday military" and substitute smaller sections of laboratories.

• • •

The problem of scheduling laboratories to make full use of facilities is receiving a great amount of attention in deliberations of various committees studying ways to implement the four-term calendar.

Basically the problem is this: to find methods of levelling off the peak demands on the laboratories while teaching the same amount of material over a shorter period of time.

(Continued on page four)

With applications flooding

Admissions research advances

ONE of the most thankless jobs facing virtually every college and university admissions officer today is that of deciding which students *cannot* be admitted each year.

In the past two years, Penn State has received 33,000 applications, undoubtedly more than any any other college in Eastern United States. Other universities, however, are also faced with a great many more applicants than they can possibly accept.

The problem, of course, is to develop criteria for admission which best serve the student, the university, and the state. Perhaps no two schools can afford to look at the problem in the same light; at any rate, no two schools seem to make decisions on exactly the same basis.

"There are many legitimate reasons one university will accept a student rejected by another," says Dr. R. G. Bernreuter, dean of admissions, "without that fact reflecting on the standards of that institution."

One of the more obvious admission criteria, used by practically all schools in some way, is the high school record of the candidate for admissions.

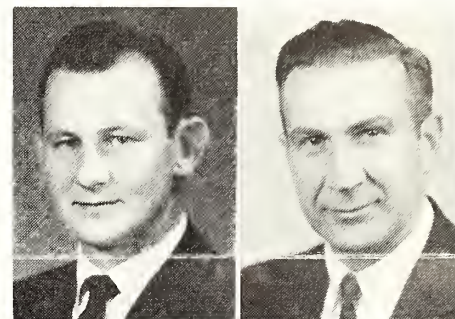
"With all its limitations," says Dr. Martin L. Zeigler, director of student affairs research, "the high school record has stood up well as an indicator of the student's probable success or failure in college, on which, in the long run, most admissions practices must depend heavily."

The high school record is used in a variety of ways. For many years the student's ranking in his graduating class has served as an effective guide. Students ranked in the third-fifth of their class are almost inevitably great risks for baccalaureate programs than first-fifths. But there are several disturbing questions about this criterion which always plagued admissions officers.

"It goes without saying," Dr. Zeigler explains, "that not all high schools are alike, so that a third-fifth student in one school can conceivably be better than a first-fifth student in another."

"Point two: not all schools rank their students the same way. For example, one school includes all types of students — academic, commercial, etc. — while another ranks only the prospective college students."

"Point three: schools vary in how much of the student's program is included in the ranking, some only the junior year, others two or three years. It isn't feasible, incidentally, to use any part of the senior year, which is another weakness of ranking as a cri-



Zeigler

Stanford

terion, because admissions decisions must be made early.

"Point four: ranking says only in a roundabout way anything concerning the student's ability in specific areas, such as English and mathematics."

"Point five: the standards for admission at many colleges are now so high that applications are drawn from the upper two-fifths anyhow, and in some cases from only a part of the upper one-fifth. Therefore other criteria must be added to segregate the best from the worst among a continually decreasing percentage of high school graduates."

The University Senate's recent approval of a regulation which will require all except first-fifth students to submit results of College Entrance Examination Board tests is recognition of the need for criteria other than high school ranking.

In order to bolster the reliability of the predictors, Penn State has embarked on a research program, under Dr. Zeigler, which is certainly one of the most complete in the country. The basic aim of the studies is to learn in what *other* ways we can supply information to the admissions officer to help him in his selection.

"It should be perfectly clear," says Dr. Bernreuter, "that we do not think an IBM machine is going to decide who comes to Penn State and who does not. Human judgment will always be used, simply because we do not ever expect to have a machine which can tell us unequivocally, with perfect mathematical precision, that this boy will fail, this will succeed."

"Nevertheless, it must seem obvious that with applications mounting into

the thousands, we must use machines to help us as much as possible."

In effect, therefore, the research program is designed to determine whether certain data now readily obtainable or probably obtainable in the future can be used.

Too many good

"But we do have another concern," says Dr. Stanford. "When we have *so many* good students, all of whom *should* make the grade, where can you draw a line and say this boy or girl may go and this may not? When we think of terms of 25-30,000 applications, the problem of selection becomes very complex. We are continually asking for additional research to help us make better admissions decisions."

"So far as I know, no college does this for its applicants."

"For example," says Dr. Zeigler, "we are studying the problem mentioned earlier that the high school ranking has a serious drawback in that no two schools are alike in grading systems or standards. It might also be said that probably no two graduating classes from the same school are alike and so ranking is a relative matter which changes from year to year."

A second study underway would take into account the college-going record of the high school. Eighty per cent of the graduates of one school in the State go on to college; from a number of schools practically no one goes.

"Very probably there is a great deal more significance to the high relative ranking of a student in the school from which many go to college than to a high ranking of those from schools where virtually no one goes," says Dr. Zeigler. "We don't *know* that it is true, however, nor does anyone else."

A third study is related to the grades achieved by the applicant in his high school English courses. Use of such information would probably also be related to the verbal part of the College Board tests, although the two do not reflect the same ability.

Also under study are the average College Board scores achieved by students from each high school. In the past two years we have received SAT scores from more than 20,000 applicants (required of only those in the lower three-fifths of their classes but submitted by many in the upper two-fifths). The data serves as a good nucleus for the study which should give some indication of Penn State's relative pulling power (for better students) and what is reasonable to expect from each school.

As the State University, Penn State has an obligation to admit as many qualified students as it can. There is no state law which defines "qualified" as in some states. Factors such as place of birth, religion, economic status, or whether the parents were graduates are used by some colleges for admission purposes. A number depend on personal interviews, either by trained staff members or by alumni. Penn State cannot use the former criteria and it has too many applicants to try the latter.

But other factors are often considered. As Dr. Stanford points out, our applicants range all the way from those for whom there is little likelihood of success in any type of collegiate program to those for whom a prediction of graduation with honors is not unjustified. At the extreme ends of the scale there is no difficulty in the decision-making.

"We have many qualified students among our applicants," he adds, "enough to fill our freshman class. But inevitably there are cases we must study closely because they are on the borderline. Perhaps their high school rating is low but their SAT scores are high, or vice versa. Maybe there are extenuating circumstances, as for example working after school or taking part in extracurricular activities. These applicants are not necessarily poor risks."

TELEPHONE

Maintenance of an up-to-date directory for all University faculty and staff members is necessary so that each person can be reached in case of emergencies.

In many cases a call comes to the University switchboard for an employee and the only information available is the employee's name. Operators have no way of finding the person unless his name is included among those in the file maintained by the Telephone Office for use by the operators.

Each department, reminds Wilbur F. Dichl, manager of telephones, should make a regular practice of sending a telephone directory card to his office, or to the chief operator, Telephone Building, whenever one or more of the following takes place:

1. A new employee joins the staff.
2. An old employee changes jobs within the University, or changes offices or telephone numbers.
3. An employee terminates for any reason.
4. It is discovered that no card has been filled out for an employee.

There are approximately 1500 full-time employees whose names are not on file at present. There should be a card for every employee whether his name is to be included in the telephone directory or not.

"In such cases we look at each one individually, and also at the recommendation of his principal. The Ivy League has found that there is a danger in placing too much emphasis on test scores and other mathematical formulae. The student body may lack the 'doers' who run the school paper, play in the band, or become student government leaders."

Motivation, or desire, is one factor which fails to show up in admission evaluations, Dr. Zeigler admits, except as it is reflected in high school performance. There are tests to indicate this quality but they are not significantly applicable to college admission policies.

"Many parents argue, perhaps with considerable reason, that their child will prove himself if given the chance," Dr. Stanford explains. "They say that their son or daughter will work hard in college. So far we have no way of predicting whether he will or not."

One of the ultimate goals of admission policies is a higher retention rate, but retention rate is not a complete measure of the success of admission programs. It is pointed out, for example, that faculty members may increase their standards as the student body improves enough to offset the improved quality of student.

More selective

"As the retention rate goes up," explains Dr. Zeigler, "the freshman class becomes more selective, putting increasing pressure on admissions policies. If we admitted every student who obtained a high school diploma in an approved program, we wouldn't have an admissions problem, but serious problems would be created elsewhere in the educational program."

Two-thirds of the first-fifth students go on to obtain baccalaureate degrees at Penn State; only 46 per cent of the second-fifthers and 39 per cent of the third-fifthers do.

"On the surface, says Dr. Stanford, "it would seem reasonable to limit admission to first fifthers, since they obviously have so much better chance of graduating. But to do so would be to place too much reliance on one mathematical relationship and obviously deny too many students the chance to prove they are capable."

"Trying to find, beforehand, the two-thirds of the first-fifthers, half of the second-fifthers, and a third of the third-fifthers who should be given a chance is our problem. No prediction will ever be perfect; we believe our research will increase the reliability of our predictions."

CALENDAR

Friday, Dec. 2

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. P. Fugassi, director of the Coal Research Laboratory, Carnegie Institute of Technology, on "Coalification Reactions."

Opening night of Center Stage production of "Summer and Smoke," 8 p.m.

Movic, "Ski Happy," sponsored by the Outing Club Ski Division. 8 p.m., Schwab Auditorium.

Philosophy Colloquium, 4:15 p.m., Room 217 Willard. Dr. Jacob Klein, St. Johns College, Annapolis, Md., on "Plato's 'Meno'."

Saturday, Dec. 3

Center Stage production of "Summer and Smoke," 8 p.m.

Varsity basketball versus Purdue and varsity wrestling versus Army, Recreation Building.

Sunday, Dec. 4

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Horton F. Davies, professor of the history of religion, Princeton University.

Monday, Dec. 5

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. W. R. Buessem, professor of ceramic technology, on "Effect of Thermal Expansion Anisotropy of Mechanical Properties of High Temperature Materials."

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Ruth Ayres, head of the department of clothing and textiles, on "Impressions of Pakistan in Metamorphosis."

Social Science Research Center fall meeting, 7 p.m. dessert, 8 p.m. address by Dr. David E. Davies, professor of zoology, on "Behavioral Devices in the Struggle for Space," dining room "A", Hetzel Union Building.

Tuesday, Dec. 6

Christmas Carol Sing and Tree Lighting, 9 p.m., courtyard, Helen Eakin Eisenhower Chapel.

Phi Beta Kappa Founders Day banquet, 6:30 p.m., Autoport. Principal speaker, Dr. Ernest C. Pollard, distinguished visiting professor of biophysics, on "To What Extent Can Physical Sciences Explain Life Processes."

Psychology Colloquium, 8 p.m., Room 111 Boucke. Dr. Donald T. Campbell, professor of psychology, Northwestern University, on "Quasi-experimental Designs for Use in National Social Settings."

Meeting of the Penn State chapter, American Association of University Professors, 7:30 p.m., Room 124 Sparks. Subject: revision of constitution and bylaws.

Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Patrick R. Huntley, economic statistician, U. S. Bureau of Census, on "Fountainhead or Mainspring for Economic Growth; the Measurement of Manufacturers' Investment in Stock of Reproducible Capital Assets."

Wednesday, Dec. 7

Chess Club meeting, 7 p.m., HUB card room.

Faculty Women's Club Christmas party, 10 a.m. to noon, Continuing Education Conference Center.

Graduate Mining Seminar, 3:20 p.m., Room 304 Mineral Industries. D. G. Mickle, on "Permeability and Compressibility of Hydraulic Fill Materials."

Industrial Engineering Graduate Seminar, 4:15 p.m., Room 117 Sackett. Thomas E.

Derr, on "The Total Evaluation of a Professional in an Academic Atmosphere."

English Colloquium, 7:30 p.m., Nittany Lion Inn. F. W. Bateson, visiting professor of English, on "How Pleasant to Know Mr. Eliot."

Home Economics Research Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. D. R. Hobbs, Jr., instructor in family relationships, on "The Relations Between Role Standpoint and Marital Adjustment."

Forestry Convocation, 11 a.m., Room 121 Sparks. Christian K. Arnold, staff assistant to the president, on "American Higher Education."

Thursday, Dec. 8

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. N. C. Yang, University of Chicago, on "Photochemical Reactions of Ketones in Solution."

Players Show, "Oedipus Rex," 8 p.m., Schwab Auditorium.

College of Home Economics faculty meeting, 4:15 p.m., Room 209 Home Economics South.

Meditation Chapel Choirs Advent Concert, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Next Month

Dec. 5 — Social Science Research Center meeting, 8 p.m.

Dec. 6 — Christmas Carol Sing, Chapel courtyard, 9 p.m.

Dec. 8-10 — Players show, Oedipus Rex.

Dec. 8 — Meditation Chapel Choirs concert, 4:15 p.m.

Dec. 9 — Penn State Singers concert, HUB, 8 p.m.

Dec. 13 — German Christmas Sing, 7:30 p.m., Schwab.

Dec. 13 — Meditation Chapel Choirs, Lessons and Carols, 8 p.m.

Dec. 17 — Chapel Choir Candlelight Service, 10:55 p.m.

Dec. 21 — Christmas Holiday begins at noon.

NEWS IN BRIEF

► **BANQUET:** The annual Founders Day banquet of Phi Beta Kappa, national honorary society, will be held Tuesday, Dec. 6 at 6:30 p.m. at the Autoport.

The principal speaker will be Dr. Ernest C. Pollard, distinguished visiting professor of biophysics, who will speak on "To What Extent Can the Physical Sciences Explain Life Processes." Those who wish to hear Dr. Pollard's talk without attending the banquet are invited to do so.

► **ART SALE:** The annual art sale sponsored by the Penn State Art Education Graduate Club will be held on Friday and Saturday, Dec. 9-10, in Room 105, Temporary Building, from 9 a.m. to 10 p.m. Art works contributed by graduate and undergraduate students and faculty of the departments of art education and fine and applied arts will be on sale. They will include oil paintings, water colors, graphics, drawings, pottery, silver work, sculpture, and handicrafts.

► **OPERA:** Broadcasts of the Metropolitan Opera Co. this season will be carried by WDFM, the University frequency modulation station, beginning with the program of Saturday, Dec. 3 of Verdi's "Nabucco". The broadcast is at 2 p.m.

Records management



The program of "Records Management" which was instituted recently is moving along smoothly in the department of industrial engineering where Benjamin W. Niebel, head of the department, left, is inventorying office files with MacDonalld Heebner, Jr., personnel representative of the College of Engineering and Architecture. Final objective of Records Management is a planned program of filing of records and other materials to keep to a minimum the filing facilities in the University.

Traffic committee

WITH a year's experience to judge by, the Faculty-Staff Traffic Review Committee reports that the procedure for appeal from citations for traffic and parking violations seems to be accomplishing its basic mission.

Of a total of 1,528 citations issued by the Campus Patrol in the past year over 250 have been appealed, which would indicate that the Committee's existence is well known and that faculty and staff members are making use of the privilege of appeal.

The Committee has been and is made up of Kinsley R. Smith, professor of psychology, present chairman, Harold P. Zelko, professor of speech, past chairman, and Reed Ferguson, director of University relations, secretary. It meets when its services are needed, every week or two.

Dr. Smith points out that the Committee's sole function is to conduct hearings and to affirm or reject the appeals from the Campus Patrol citations.

"We are not a regulatory body," he adds. "However, from our experience we have been able to make recommendations for improvements in the University's regulations on traffic and parking."

The Committee's procedure is very informal. The faculty or staff member making the appeal appears to give his views of the situation. A representative of the Campus Patrol adds any information he has. The appellant and the patrolman withdraw while the Committee deliberates. Notices of decisions are sent via campus mail to the person making the appeal, to the campus patrol, and to the Bursar.

Aside from the ticket attached to the car by the Campus patrolman at

the time of the alleged violation, the person is made aware of the citation by a notice from the Bursar. If the person wishes to make an appeal he should wait until this statement is received.

"Then the person should write to the Traffic Review Committee, 304 Old Main, within two weeks of the date specified on the Bursar's statement," explains Dr. Smith. "There is no point describing the case in this letter because the Committee makes its judgment only in session. It is necessary, however, to give the date of the alleged violation."

"The Committee secretary will send notification of the date set for the hearing. If it is impossible to appear at the time set, notice in advance should be given the Committee and a new hearing date will be set."

Persons appealing a violation must appear personally before the Committee, since no single member of the Committee may act on an appeal and appeals may not be handled by correspondence. Failure to appear for a scheduled hearing results in no action on the appeal.

Charged violations are cancelled if it is judged that no violation existed or if there were extenuating circumstances which justify cancellation.

"We would like to make an appeal of our own," Dr. Smith says. "It would help our work and it would save the time of many people if they would become thoroughly familiar with the *up-to-date regulations*, which were made available to everybody at the beginning of the semester."

"And we would also like to point out that all appeals should be made to the Committee, not to the Campus Patrol."

Calendar —

(Continued from page one)

One department facing the problem is physics, which has limited space for certain of its courses. Since the courses are required in a number of curricula in a specific semester, the department has no way to spread the load out over the year. In effect, therefore, the same number of student contact hours must be scheduled in 10 weeks as are now being scheduled in 15. Under the present semester system, the lab is scheduled just about every hour of the week as it is.

A possible solution: reduce the number of contact hours per week or, in other words, cut back the length of the lab period.

* * *

The 75-minute period will be of considerable value in the operation of classes in required physical education, in the view of George W. Harvey, associate professor of physical education in charge of the required program.

"In a 50-minute period we get about 35 minutes of actual activity during a class because of time lost getting the class started and because it is necessary to end the class early to give the students time to dress."

"Consequently, out of 45 class sessions a semester we now get 1,575 minutes of actual work."

"With a 75-minute period, and 30 class sessions, presuming we would again have a loss of 15 minutes from each session, we will have a total of 1,800 minutes of actual work. That is a 14 per cent increase."

faculty BULLETIN

Vol. 48, No. 21

Dec. 2, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Calendar problems

ADVISORS who have been accused of spending many hours, some of them fruitless, over student schedules will get relief sometime in the future from this chore, but not for the current year.

Registration and scheduling procedures are under close scrutiny and machines will undoubtedly play a large part in the process in 1962 and thereafter. Committees are currently hard at work developing methods for the 1961-62 year, but it seems inevitable that much personal work will be required of advisors in such matters that the students cannot handle themselves.

Most advisors agree that the ultimate would be pre-planned student programs, with electronic "brains" taking over from that point on to work on a student's schedule. That, in effect, is the goal the University is now working for. Purdue, it is pointed out, does some of this now.

But a whole team of mathematicians and program planners is necessary before the calculators and other equipment can be worked out to accomplish this aim. There is not time to develop this team and put it to work before the registration for the next academic year is upon the University.

Something to think about, however, is the suggestion that next spring advisors and students will work out programs not only for the Fall Term but also the Winter and Spring Terms of the 1961-62 year.

NEWS IN BRIEF

► **REHABILITATION:** Dr. William A. Fraenkel, staff consultant for the National Association of Retarded Children, will address an open meeting in the HUB auditorium Monday, Dec. 12 from 10 a.m. to noon. He will speak on "Survey of Rehabilitation Services throughout the Country: Implications for the School Counselor." He is being brought to the campus under the auspices of the Office of Vocational Rehabilitation Teaching Grant Project 23-61 and the Office of Education Graduate Fellowship Program.

► **LIBRARY:** During the Christmas recess, the Pattee Library will observe the following schedule: Dec. 21, 7:50 a.m. to 5 p.m.; Dec. 22, 9 a.m. to 5 p.m.; Dec. 23-27, closed; Dec. 28-30, 9 a.m. to 5 p.m.; Dec. 31, 9 a.m. to 12 noon; Jan. 1-2, closed; Jan. 3, 9 a.m. to 5 p.m.; Jan. 4, 9 a.m. to 10 p.m.

► **GYMNASTICS:** Faculty and staff members may apply immediately for tickets to the gymnastics competition and exhibition by United States and Russian teams in Recreation Building, Saturday, Jan. 14. Mail applications will be accepted in the Athletic Association office, 249 Recreation Bldg., until 5 p.m., Friday, Jan. 6. Reserved seats are \$3.00 each and general admission \$2.00 and mail applications are to add a 25-cent handling charge to each order. Each applicant will be limited to two tickets.

► **CHOIR:** The Candlelight Service of the University Chapel Choir originally scheduled for Saturday, Dec. 17, has been changed to Thursday, Dec. 15, at 9 p.m. in Schwab Auditorium because of the conflict of the Liberty Bowl.

► **GERMAN SING:** The 31st annual German Christmas Sing will be held Tuesday, Dec. 13, from 7:30 to 8:30 p.m. in Schwab Auditorium. One feature of the program will be a presentation, "Christmas in Pictures", by Dr. Martin Weinberger, visiting professor of art.

► **STEFANIAK:** Dr. Ludwik Stefanik, professor of archaeology, University of Krakow, Poland, noted Biblical archaeologist, will give two lectures on campus during a visit for the next few days.

Today (Dec. 9) he will speak at 3:15 p.m. to students in Archaeology 2 and English Lit. 64 at 3:15 p.m. in Room 219 Electrical Engineering, on "Excavations and the Bible."

On Monday, Dec. 12 at 8 p.m. in

the Helen Eakin Eisenhower Chapel he will give a public lecture on "Archaeology and the Bible."

A luncheon will be given in his honor Sunday, Dec. 11 in dining room "A", Hetzel Union Building at 1 p.m. Interested persons are invited.

► **INTELLIGENCE:** Dr. Iben Browning and Dr. W. W. Bledsoe, of Advanced Research, Palo Alto, Calif., will discuss "Artificial Intelligence" before the Social Science Research Center luncheon Thursday, Dec. 15, in dining room "A" of the HUB, at 12:30 p.m.

They will report on their interdisciplinary attack on the problem of programming a machine to exhibit behavior which can be classified as intelligent.

Dr. Bledsoe, who is currently visiting professor of computer science at Penn State, was formerly manager of the mathematics research department of Sandia Corp. Dr. Browning is a biologist at Palo Alto.

► **RAPHAEL:** Dr. Martin Weinberger, distinguished visiting professor of art and architectural history, will lecture on "Raphael's Sistine Madonna, Its Artistic and Religious Significance" Friday, Dec. 16, at 8 p.m. in the HUB Auditorium.

► **TAPES:** The Agricultural Extension Service has received a gift of 200 audio recording tapes from Pittsburgh radio station KDKA in appreciation of and to further the radio service of Extension. KDKA broadcasts the Agri-Digest and Home and Garden programs daily.

► **HUB SERVICE:** The Lion's Den at the Hetzel Union Building will close at noon, Wednesday, Dec. 21 and reopen for breakfast on Wednesday, Jan. 4. The Terrace Room cafeteria will close after lunch on Thursday, Dec. 22 and reopen for lunch on Thursday, Jan. 3.

► **MANPOWER:** The department of educational services is sponsor of a talk by Dr. Seymour L. Wolfbein, deputy assistant secretary, U. S. Department of Labor on Wednesday, Dec. 14 at 4:15 p.m. in the assembly room of the Hetzel Union Building.

He will speak on "Manpower — Challenge of the 1960s."

► **STANDING:** Penn State has slipped to 12th place in full-time enrollment among the nation's colleges and universities in spite of an increase of more than a thousand students in this category over last year. Indiana Uni-

versity, which last year was twelfth, increased by 1,465 to 17,890, while Penn State increased to 17,767.

Largest system is that of California, followed by the State University of New York. City College of New York, which is third, showed the largest increase over last year, adding 2,635 full-time students. All of the major colleges and universities showed advances.

► **TECHNOLOGY:** Wyomissing Center will offer a two-year program in chemical technology, leading to the associate degree, beginning next fall. Wyomissing will be the only Commonwealth Campus to offer this program. It now enrolls 112 students in two-year programs in electrical technology and drafting and design technology.

► **FROST:** Drawings and paintings by Stuart H. Frost, instructor in art, are now on exhibit in the Hetzel Union Building gallery and will remain until Dec. 23. It consists of 35 drawings, oils, and water colors.

► **COOPERATION:** Dr. Morton Deutsch, social psychologist, Bell Telephone Laboratories, will speak on "Studies of the Conditions Affecting Cooperation" Tuesday, Dec. 13 at 8:15 p.m. in Room 214 Boucke. This is a Psychology Colloquium which is open to the public. Dr. Deutsch will outline a theory dealing with the conditions relative to the initiation of cooperation and describe a number of experiments concerning interpersonal relations and interpersonal bargaining.

► **SNOW:** Frazier Road, between Pollock and Curtin, will be closed to parking on days when snow removal is necessary and those who normally park there should seek other parking space for the time necessary to complete the work. Parking in Area 12, in the courtyard at Thompson Hall, will not be affected nor will through traffic on Frazier Road.

► **UNICEF:** Sales of UNICEF greeting cards, proceeds of which go to the United Nation's Children's Fund, are being managed this year by Dr. and Mrs. David Russell (752 Westerly Parkway, AD 8-2897). Dr. Russell, professor of education, may also be reached at 7 Burrowes, UN 5-4812.

► **NO TREES:** The School of Forestry is no longer able to provide evergreen trees of a quality suitable for use or sale as Christmas trees, Peter W. Fletcher, director, has announced. He explains that young evergreen plantations have already been thinned and the remaining trees are too large for Christmas trees.

Foreign students need identity

WEST GERMANY, and especially Berlin, has taken on the appearance of an unofficial United Nations, according to Dr. Ernest H. Freund, professor of philosophy, with the appearance of so many foreign students.

"About ten per cent of all students in universities and institutes in West Germany," he explains, "are from foreign lands, representing nearly every country on the globe outside the Communist sphere."



Freund

Dr. Freund had close contact with some of these students for 18 months while he was on leave from Feb. 1959 to June, 1960, setting up a program at the request of the American Friends Service Committee, to help these students develop a more intimate relationship with German students and families.

"You cannot assume that these foreign students need only the contact with their professors and students at the university to satisfy completely their needs," Dr. Freund explains.

"Whether it is Berlin or University Park, Pa., the foreign student wants an identity in his new community, and would like to tell others about his country and the hopes and ambitions of his people."

Dr. Freund's principal objective in Berlin was to develop programs in the "Mittelhof", a neighborhood center for group meetings, which would bring foreign students into closer contact with Germans and pluck them from the isolation they found themselves in. Bringing together Arabs, Indians, Indonesians, Greeks, Israelis, Ghanians, and many others with their German counterparts led to some interesting but encouraging problems.

"Language was not a great barrier since most spoke German rather well," Dr. Freund says. "Some students, however, were not accustomed to informal discussions even in their own countries. American students in Germany were quite easygoing and ready for such discussions at any time, but the other foreign nationals were hesitant at first.

"We would have topics for discussion of interest to them and before long the discussion group became very lively," Dr. Freund says.

For example, at one meeting a German student reported on his trip to Egypt and the friendly reception he

had been accorded there. Then a long discussion developed on community life as seen through Arab and German eyes. The Arabs had a welcome opportunity to talk about aspects of their life at home which they cherished most and missed in Europe.

At another meeting a leading sociologist and social minister was on hand to introduce the topic of the evening, present-day problems of the German, and had to cope with the question of the visiting students regarding authoritarianism in present-day German family life. At this meeting, refreshments were prepared by the French students, and present were others from Pakistan, Arab countries, Argentina, Japan, Great Britain, Yugoslavia, Spain, France, and the United States.

A result of the weekly meetings was a friendlier feeling toward Germany in general, Dr. Freund believes, but there were other programs to foster this feeling. Some of the foreign students also participated in "week-end work camps". Students use this device to carry on useful social programs, such as helping underprivileged families renovate an apartment.

Much of Dr. Freund's time was taken with this program but he did have occasion to talk on philosophy to various German audiences. At a "breakfast group" type of meeting, which was attended by those of academic positions, judges, and school administrators, he spoke on mysticism.

"In a group such as this," Dr. Freund says laughingly, "there is always someone more expert on the subject than you."

The foreign students were little concerned with European politics, although they did discuss at one point the East-West problems and collectivization of farms in East Germany.

"We must not relax in our concern for our foreign visitors here," Dr. Freund concludes. "It is important for them to feel at home in the United States and for us to learn from them while they learn from us. I have seen the good effects that can result from mutual exchange.

Items of interest

Articles and Papers

At the Mineralogical Society of America meetings at Denver, papers by the following Mineral Industries faculty members: A. A. Adler, L. H. Lattman, Robert Scholten, William Spackman, C. P. Dolson, Alan Davis, R. R. Dutcher, Frank Dachille, S. P. Mansfield, A. M. Taylor, Rustum Roy, M. L. Keith, R. Eichler, R. H. Parker, W. B. White, P. L. Roeder, E. F. Osborn, O. F. Tuttle, H. L. Barnes, D. B. Hawkins, Abraham Hoffer, B. F. Howell, Jr., Robert Woodthi, Seymour Merrin, G. W. Putnam, C. W. Burnham, L. Walter, J. V. Smith, P. D. Krynine, J. D. Ridge, R. W. Taylor, W. H. Taube-neck.

ALBERS, V. M., Ordnance Research Lab, a paper on underwater acoustics at a Navy Research and Development Clinic at Pensacola, Fla.

ALBRIGHT, G. H., and DILL, A. F., architectural engineering, a paper on the Shelter Research Program, at the Pennsylvania Society of Architects meeting.

ANTHONY, ADAM, zoology, ACKERMAN, EUGENE, physics, and ODA, FUJIO, physics, a paper on "A High Power Corona-Type Loudspeaker for Animal Studies" at the 13th annual conference on Electrical Techniques in Medicine and Biology.

BORON, L. F., mathematics, translations from Russian into English: "Normed Rings" (Naimark) published by Noordhoff, Groningen, The Netherlands, 1960, and "Theory of Functions of a Real Variable, Vol. II" (Natanson) published by Ungar, New York, 1960.

CARZO, ROCCO, JR., management, a paper in the November issue of The Delta Sig on "Employment of Human Resources."

COOK, F. H., business law, an article, "Pay-Out for Capital in the Electrical Power Industry," in the Nov. 24 issue of Public Utilities Fortnightly.

DYE, W. S. III, data processing service, an article, "Pennsylvania Switches over to Mechanized Accounting" in the November issue of College and University Business.

HASSLER, W. W., JR., American history, an article, "The First Day's Battle of Gettysburg" in the journal, "Civil War History."

HERMAN, L. M., and ZEIGLER, M. L., Student Affairs Research, an article on "Comparison of Academic Achievement, Aptitudes, and Interest Patterns of Two-year Technical Students and Four-year Degree Candidates in Engineering," in the Sept. issue of The Journal of Experimental Education.

HITOMI, KATSUNDO, industrial engineering, a paper on machinability research in Japan at the annual meeting of the annual meeting of the American Society of Mechanical Engineers.

HUTTON, H. K., education, articles in three publications last month: "They Know Not Dickens" in the English Journal; "Canadian Political Orators" in the London Free Press; and "Professors as Teachers and Readers" in the Peabody Journal of Education.

LEONARD, R. J., counseling in education, a paper, "Guidance in 1975" at the regional conference of Counselor Educators and State Supervisors of Guidance at Gros-singer, N. Y.

MARIN, JOSEPH, engineering mechanics, a paper on "Research in Solid State Mechanics" at the Mechanics Division meeting of the American Society of Civil Engineering.

MCDERMOTT, R. E., forest management, co-author of a paper, "Strengthening University Research, in "The American Scientist," publication of the Society of Sigma Xi.

PRYBYLA, J. S., economics, an article, "The World of the 'Wealth of Nations'" in the University of Toronto Quarterly, October, 1960.

— Review of William D. Grampp's book, "The Manchester School of Economics" in the Oct. 1960 issue of the American Historical Review.

REMICK, F. J., nuclear engineering, an article in the November issue, Plant Engineering, on "Radioisotopes Primer."

SIEGENTHALER, B. M., clinical speech, and SMITH, DORIS K., education speech, a paper on "Effects of Occluding the External Auditory Meatus on Bone Conducted Speech Reception Test Scores."

STAFFORD, R. E., Student Affairs Research, a paper on "Concurrent Validation of a Foreign Language Vocabulary Aptitude Test."

STEVENSON, W. T., religious studies, a book review of "Problems of Religious Knowledge" by Peter Munz in the Anglican Theological Review.

TORKELSON, G. M., and OXHANDLER, E. K., education, an article titled "New Directions for AV Training" in the December issue of "Educational Screen and Audio-Visual Guide."

WILLOWER, D. J., education, an article, in the October issue of the Journal of Educational Sociology on "Leadership Styles and Leaders' Perceptions of Subordinates."

— "Professionalization and Education" in the current issue of the Peabody Journal of Education.

WISLICENUS, G. F., Water Tunnel, a paper, co-authored with J. W. HOLL, on "Scale Effects on Cavitation" at the annual meeting of the American Society of Mechanical Engineers.

Arts

FROST, S. H., and ZORETICH, G. S., art, exhibiting in two-man show at Mansfield State College.

Elected and Appointed

COOMBS, F. M., recreation education, elected vice-president for recreation, Eastern Dis-

trict Association for Health, Physical Education, and Recreation.

— appointed to the administrative council of the American Recreation Society.

FLETCHER, P. W., Forestry, elected chairman of the Council of Forestry School Executives; also secretary of the newly organized "Commission on Forestry at Land-Grant Colleges and State Universities."

GOODWIN, EUGENE, journalism, appointed to the Personnel Committee of the Associated Press Managing Editors' Association.

MCDUGALL, ALMA, hotel and institution administration, assumed office of president of the Pennsylvania Dietetic Association on Nov. 1.

OSBORN, E. F., vice-president, elected president of the Mineralogical Society of America.

SIEGENTHALER, B. M., clinical speech, elected vice-chairman of the House of Delegates of the American Speech and Hearing Association.

THUERING, G. L., industrial engineering, appointed to membership on the Papers Review Committee of the Management Division of the American Society of Mechanical Engineers.

Honors and Awards

O'CONNELL, W. D., electrical engineering, awarded the Certificate of Merit of Pi Lambda Phi Fraternity; also named the Outstanding Senior Brother of the local chapter of the same fraternity and received a plaque.

SPRAGUE, V. G., agronomy and Pasture Research Lab, the Superior Award of the U. S. Dept. of Agriculture.

Lectures and Talks

ALEXANDER, R. L., art, a talk before the Maryland Historical Society on "Architecture and Aristocracy: The Patrician Style of Latrobe and Godefrey."

BAYLOR, J. E., agricultural extension, a talk on "Forage Testing in Pennsylvania" before the Lorraine County, Ohio, Green Pastures Awards Banquet.

BERNARD, JESSE, sociology, a talk at the University of Michigan Sociology Colloquium on women in the academic world.

BRITTON, J. H., child development and family relationships, a talk before the Corning.

(Continued on page four)

Penn State Singers



A concert will be given by the Penn State Singers at 8 p.m. this evening in the HUB auditorium. Directed by Raymond Brown, associate professor of music, the Singers constitute a "music fraternity" or "Collegium Musicum" similar to those which began in German towns in the 18th century. They will sing Elizabethan madrigals, cantatas, and carols interpreted in a modern manner.

CALENDAR

Friday, Dec. 9

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Joseph J. Comer, associate professor of mineral sciences, on "The Electron Microscope in Research."

Players production of "Oedipus Rex," Schwab Auditorium, 8 p.m.

Center Stage production of "Summer and Smoke," 8 p.m.

Hillel Foundation Friday Night Services, 8 p.m. Henry Shaw, director, B'nai B'rith Hillel Foundation, University of London, on "The Jew in English Literature." Public invited.

Graduate Student Association dance, 9 p.m. to midnight, HUB Ballroom, for faculty and graduate students. Dress informal.

Penn State Singers concert, Hetzel Union Building assembly room, 8 p.m.

Saturday, Dec. 10

Players production of "Oedipus Rex," 8 p.m., Schwab Auditorium.

Center Stage production of "Summer and Smoke," 8 p.m.

Sunday, Dec. 11

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Reverend Preston N. Williams, assistant University chaplain.

Monday, Dec. 12

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. L. E. Dennis, vice-president for academic affairs, on "Some Troublesome Penn State Contradictions."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Professor Lebstein, Syracuse University, on "Photoconductive in the Infrared."

Talk by Dr. William A. Fraenkel, National Association of Retarded Children, on "Rehabilitation Services," 10 a.m. to noon, HUB auditorium.

Lecture by Dr. Ludwik Stefaniak, professor of archaeology, University of Krakow, Poland, on "Archaeology and the Bible," 8 p.m., Helen Eakin Eisenhower Chapel.

Tuesday, Dec. 13

Psychology Colloquium, 8:15 p.m., Room 214 Boucke. Dr. Morton Deutsch, social psychologist, Bell Telephone Laboratories, on

"Studies of the Conditions Affecting Cooperation."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. George G. Johnson, professor of agricultural extension, on "Making the Most of Color Photography."

Meditation Chapel Choirs annual "Festival of Lessons and Carols," 8 p.m., Helen Eakin Eisenhower Chapel.

Agronomy Seminar, 4 p.m., Room 111 Tyson. Dr. Roy D. Hockensmith, Soil Conservation Service, and Russell Billings, Stanford Seed Co., on "Human Factors in Professional Careers."

Sociology Club, 8:15 p.m., Room 11 Boucke. Movie: "The Hunters."

Annual German Christmas Sing, 7:30 p.m., Schwab Auditorium. Martin Weinberger, illustrated talk on "Christmas in Pictures," and George Wurfl, professor emeritus of German, reading the account of the Nativity.

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

Electrical Engineering Seminar, 4:15 p.m., Room 207 Electrical Engineering. Dr. Eugen J. Skudrzyk, Ordnance Research Lab, on "Applications of Circuit Theory to Complex Mechanical Systems."

Wednesday, Dec. 14

Forestry Convocation, 11 a.m., Room 121 Sparks. Earl P. Strong, director, Bureau of Business Research, on "The Subject Matter of Management."

Lecture by Dr. Seymour L. Wolfbein, deputy assistant secretary of the U. S. Department of Labor, on "Manpower — Challenge of the 1960's," 4:15 p.m., HUB assembly room, sponsored by the department of educational services.

Psychology Colloquium, 12 noon, dining room "A", Hetzel Union Building. J. M. Warren, associate professor of psychology, on "Alternation and Double Alternation in Cats."

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Dec. 15

Materials Science Seminar, 1:15 p.m., Room 105 Mechanical Engineering. John W. Goodman, Space Technology Laboratory, Los Angeles, Calif., on "Pressure Vessel Problems and Missiles."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. G. A. Wolff, Harshaw Scientific Co.

Social Science Research Center luncheon,

12 noon, dining room "A", Hetzel Union Building. Dr. Iben Browning and Dr. W. W. Bledsoe, Advanced Research, Palo Alto, Calif., on "Artificial Intelligence."

University Chapel Choir Candlelight Service, 9 p.m., Schwab Auditorium.

Friday, Dec. 16

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. J. P. T. Pearson, member of the Secretariat, Space Science Board, Washington, D.C., on "The Extraterrestrial Point of View: Achievements and Expectations in Space Research."

Talk by Dr. Martin Weinberger, distinguished visiting professor of art and architectural history, 8 p.m., HUB auditorium, on "Raphael's Sistine Madonna, Its Artistic and Religious Significance."

Items —

(Continued from page three)

N. Y. branch of the American Association of University Women on "Man and His Years."

CURRY, H. B., mathematics, a lecture on "The Inferential Approach to Logical Calculus" at a meeting of the Yale Society for Mathematical Logic and Scientific Methodology.

FINCH, H. A., philosophy, talk, titled "Is Nature Cruel: Philosophical Notes on Tennyson, In Memoriam LVI, LVII" before the Comparative Literature Club.

— "Philosophy of Puns," a talk before the Penn State English Club.

FISHER, KATHERINE H., foods and nutrition, as visiting scholar at the University of Delaware, a series of lectures on foods and nutrition, and also a talk before the Delaware Faculty Club on "Unscientific Beliefs about Foods and Nutrition."

GJESDAHL, M. S., mechanical engineering, a lecture on "Creative Techniques in Engineering" before the Northwestern Engineering Society of Pennsylvania.

KNIFFIN, F. W., marketing, a talk on "Marketing," at the Management Institute at Wake Forest College.

LINDSAY, R. W., metallurgy, a lecture at the E. I. duPont de Nemours Co. Engineering Department Experimental Station at Wilmington, Del., on the subject of "Ultra High Strength Construction Alloy Steels."

faculty BULLETIN

Vol. 48, No. 22

Dec. 9, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

Faculty BULLETIN

Weekly Publication
of Pennsylvania
State University

News in brief

► **STATE COLLEGES:** Two recent developments at the 14 State Colleges are of general interest. They are reported in a recent issue of the Pennsylvania Dept. of Public Instruction Newsletter.

All of the colleges have been given permission to operate on a four-quarter, 12-week plan beginning next year. Five colleges have indicated they are considering the plan for September, 1961. California State College has been operating on a tri-mester plan since 1959. Shippensburg State College has decided to adopt the new calendar.

The new calendar is also accompanied by a change in the class meeting time from 50 to 75 minutes.

Clarion and Slippery Rock State Colleges are now developing plans to offer courses off-campus, Clarion in Oil City and Slippery Rock in Butler.

► **ARTS:** Preliminary plans for an Arts and Humanities building are expected to be completed by late February or early March, with final plans due next December.

Approval of a site near the Helen Eakin Eisenhower Chapel was approved by the Executive Committee of the Board of Trustees after recommendation by University and General State Authority architects. The site is in part of Hort Woods.

Present sketches anticipate that the main building will have two wings extending south toward the Chapel. In size it will be about equal to the new Hammond Building. It will have

(Continued on page four)

For better understanding

Counseling counselors

STUDENTS in some 263 high schools of the State who depend on their guidance counselors for advice will have a much better picture of Penn State as a result of a series of nine meetings conducted by the University last spring and this fall.

Dr. Robert G. Bernreuter, dean of admissions and special assistant to the president for student affairs, Francis T. Hall, assistant dean of the College of Engineering and Architecture, and representatives of industry were the leaders of the conferences.

The meetings were held at DuBois, York, Altoona, Erie, Allentown, Pottsville, New Kensington, Scranton, and Hazleton and attendance ranged from 31 to 101. Some 47 counties were represented among the 632 participants.

Major parts of each program were explanations of (1) Penn State's admissions policies, procedures, and academic programs; and (2) the two-year associate degree programs in engineering technology. Dr. Bernreuter covered the first part and Hall the two-year programs.

In Dr. Bernreuter's presentation of special interest were the graphs developed to indicate the admissibility and probable success at Penn State of the prospective student. Armed with these graphs and with the student's high school ranking and College Board aptitude test scores, the counselor can show the student and his parents not only what his chances are for admission to Penn State but also a prediction of his probable academic success after enrolling. Two charts

are provided, for science and for non-science curricula.

Dr. Bernreuter's talk also covered the Four-Term calendar, other recent changes in the University's program, and the counseling program.

In discussing the admissions policies of the University, Dr. Bernreuter pointed out that applications are received from students with wide ranges of abilities. He urged the counselors to be realistic in their advice and to discourage students from making application who are not obviously suited to Penn State's standards. And he suggested that counselors be alert to the possibility of guiding certain students toward two-year rather than four-year programs of study.

"We need your help," he told the counselors, "particularly with those students who are on or near the borderline of probable success at Penn State. The information you give us and your recommendation or lack of it can be extremely helpful."

During each conference an informal question period followed, to provide an exchange of ideas of mutual value to the schools and to the University.

Hall explained the purposes and advantages of the associate degree program and, in particular, the place the associate degree graduate has in modern industry. Following his talk, a representative of a local industry which hires associate degree graduates explained how his company is using them and the success it has with them.

Attendance on the part of the
(Continued on page three)



High school counselors in the Hazleton area recently heard Dr. R. G. Bernreuter, dean of admissions, describe the University's program in selecting students from among the many thousands who apply for admission.

SENATE MINUTES

MEETING OF DECEMBER 1, 1960

The University Senate met at 4:15 p.m. on Thursday, December 1, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the November 3, 1960 meeting were approved as printed in the Faculty Bulletins for November 11 and 18. One hundred eighty-six senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. P. Campbell (George Pappas), H. E. Goodwin (C. H. Brown), P. W. Fletcher (W. E. White), M. S. Gjesdahl (W. E. Meyer), J. L. Gobble (J. H. Ziegler), Ruth Godfrey (James Keisler), L. P. Guest (D. G. Thevaos), and B. A. Whisler (W. N. Underwood).

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" in two sections. He explained that Section II contained a re-write of all English courses as they will appear in the next issue of the Catalog. The listing of courses included three courses unchanged, 68 changed, 24 new courses added, and 28 old courses dropped. He announced that progress is being made in the transition from the 8-semester system to the 12-term system. Several Colleges have already submitted material dealing with the present Common Year which will be a Common First Three Terms. In addition, in Agriculture it has been possible to prepare and distribute one complete 12-term sequence together with instructions for conversion. The Committee has asked for proposals to be received before Christmas but at the latest by mid-January. Mr. Shelley moved adoption of Items I-A and I-B which included changes in the English courses. The motion was seconded, A. W. VanderMeer questioned the amount of prerequisites necessary for enrollment in any English course in the 400 series and moved an amendment to the underscored paragraph on page three concerning minimum prerequisites to delete the words "in the 100 series" and to substitute the word "English". The motion was seconded. The amendment was discussed by H. W. Sams and R. B. Saylor. The vote on the amendment was defeated. There was discussion by Messrs. Ridge, Sams, Bowman, and Bisscy on the prerequisites necessary for English 117 and the excusing of superior rated students from one of the two first courses in English. The motion to approve the report of the Committee was passed. The complete report is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "B". This report was in four sections. Section I pertained to Audit Classification. Mr. Anderson moved that Rules M-9 and I-10 of the Regulations for Undergraduate Students, 1960-61, be amended to read as follows:

M-9 *When a student has registered in a course as an auditor, no final grade shall be given, but the symbol "Aud". shall be used if attendance has been regular, the symbol "W" if attendance has been unsatisfactory.*

I-10. *It shall be the policy of The Pennsylvania State University to encourage learning among its students by authorizing their attendance at any class, with the permission of the instructor, even though they are not officially enrolled for credit or for audit.*

However, if a student wishes to audit a

course officially and have this fact appear on his transcript, he must enter that course on his schedule with the symbol "Aud". shown under "credits". Such a student may, if he wishes, participate in class discussions, do practicum work, submit written work, and take examinations.

The motion was seconded and passed.

Section II pertained to Jurisdiction of Athletics. Mr. Anderson moved adoption of the modification for Rule X-1 of the Regulations for Undergraduate Students, 1960-61 to read as follows:

X-1 The Senate Committee on Athletics shall have jurisdiction over all intercollegiate athletic contests. All schedules . . . (etc. without further change to end of rule X-1).

The motion was seconded and passed.

Section III contained modifications of Rules X-2 and Y-4 to make them consistent with the Senate's intentions when they dropped the "K" rules. Mr. Anderson moved adoption of the modifications as follows:

X-2 Not later than 48 hours before the departure of an athletic team on a scheduled trip, a list of candidates expecting to make the trip shall be submitted by the Dean of the College of Physical Education and Athletics or the Dean of Student Affairs at the Commonwealth Campus to the Committee on Athletics. No candidate shall be allowed to depart on an athletic trip without the consent of this Committee.

Y-4. Not later than 48 hours before the departure of an organization expecting to make a trip, a list of students expecting to participate shall be submitted by the manager to the Dean of Men and the Dean of Women. No student shall be allowed to depart on such a trip without the consent of the Dean of Men or Women.

The motion was seconded. In the discussion it was pointed out by the Chairman of the Committee that these modifications did not constitute new rules but would make the present rule consistent with the wishes of the Senate when they passed the deletion of the "K" rules. The motion was passed.

Mr. Anderson then presented Section IV pertaining to an Honors Program. He asked that the new Rule E-13 as presented be changed to read:

E-13. Those members of the graduating class who have fulfilled the following requirements shall have the fact of their completion of an Honors Program inscribed on their diplomas:

a. Admission to an authorized Honors Program with fifth term standing with a grade point average of 3.00 or higher (or a 4.00 average in all courses in his academic major); the maintenance of a 2.50 grade point average.

b. Completion of twelve (12) credits in authorized Honors course work.

c. Passing of a comprehensive examination administered by an Honors Committee.

He then moved adoption of the changed Rule E-9 and the new Rule E-13 as presented above. The motion was seconded. There was discussion on the specified time "fifth term". J. D. Ridge moved that the words "fifth term" be deleted and that the words "at the beginning of the seventh term" be substituted. The motion was seconded and defeated. R. K. Murray moved an amendment to the motion to substitute the words "by the seventh term". The motion was seconded. A. W. Hutchinson moved that Section IV be returned to the Senate Committee on Academic Standards. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Unfinished Business

Mr. Anderson asked that the report of the COMMITTEE ON RULES which had lain on the table for one month be removed and acted upon at this meeting. He made

an editorial change to the proposal to amend Article II; Section 1 of the By-Laws by deleting the word "undergraduate". The motion proposed to amend Article II, Section 1, and Article II, Section 2. The motion was passed. Article II, Section 1 now reads:

Library, one member from each of the Colleges and from the Graduate School, and one director of a Commonwealth Campus; and the Vice President for Academic Affairs, the Vice President for Research, and the University Librarian, ex officio.

Article II, Section II now reads:

Library — It shall be the duty of the Committee on the Library to make policy recommendations concerning the status and function of the library in the University.

The complete report is on file in the office of the secretary. President Walker asked the Committee on Committees to make the appointments as soon as possible.

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting concerning changes in the By-Laws. The report contained two items. The first was a proposal to amend Article II, Section 1(m) by adding one member from the Graduate School to the Senate Committee on Scholarships and Awards. The Committee recommended that no change be made at this time. Mr. Josephson moved that Proposal I be received by the Senate. The motion was seconded and passed. He then presented Proposal II and moved that Article II, Section 1(f) be amended by adding the Director of Agricultural and Home Economics Extension to the Committee on Continuing Education Policy (formerly Committee on Extension Policy). The motion was seconded. Since this is new legislation it will lie on the table until next month. Proposal II is as follows:

II. Proposal: That Article II, Section 1 (f) of the Senate By-Laws be amended by adding the Director of Agricultural and Home Economics Extension to the Committee on Continuing Education Policy (formerly Committee on Extension Policy).

Comment: Since the Director of Continuing Education now serves on this Committee ex officio, non-voting, it would appear appropriate that the Director of Agricultural and Home Economics Extension be added to this committee in a similar capacity.

Recommendation: That Article II, Section 1(f) of the Senate By-Laws be changed to read:

*Continuing Education Policy, one member from each of the Colleges and the Graduate School, and the Directors of Continuing Education and Agricultural and Home Economics Extension, ex officio, non-voting.**

* Change of wording underlined.

The complete report is on file in the office of the secretary.

F. W. Peikert, Vice Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, stated that in view of the coming Liberty Bowl Game the Student Government Association had made a proposal to the Committee that Students be granted a half-holiday on December 17, 1960 and that the time be made up on the free day before examinations on Wednesday morning, January 18, 1961. Mr. Peikert stated that the Committee was not making a recommendation but that he would move that the request of the Student Government Association be granted. The motion was seconded. Richard Haber, President of the Student Government Association, made a statement regarding the reasoning in making this request. The motion was passed.

The next regular meeting of the Senate will be on Thursday, January 5, 1961. The agenda will be distributed on December 22, 1960. The meeting adjourned at 5:10 p.m.

Robert G. Bernreuter, Secretary



Some members of the faculty of the College of Engineering and Architecture, including Gerald E. Robinson, research assistant in the nuclear engineering department, have already taken advantage of the vision testing program described in the story at the right. Operator of the equipment in that College is Teresa Frederick, secretary in engineering.

Vision Testing

A program of vision testing, which has been available to some employees of the University for several months, is now attainable by faculty members on a completely voluntary basis and at no charge.

The program was undertaken initially by the department of maintenance and utilities, and ultimately over 400 men and women were tested.

Results of these tests proved successful to the department to the extent that many employees verified that their eyesight was adequate for the job but others discovered that they had serious eye deficiencies which might prove disadvantageous and perhaps even dangerous in their jobs.

Robert W. Dombrowsky, training coordinator in the department of personnel services, points out that the test is not intended to take the place of a thorough examination by a professional person but may be of considerable assistance to the employee in suggesting whether he has a vision deficiency.

Some faculty members and all of the technical-service employees of the College of Engineering and Architecture have already taken examinations.

Although the tests are not intended to be as complete as those given by a professional person, they do cover far and near acuity, stereopsis, color discrimination, and vertical and lateral phoria. Equipment used for the examination is similar to that used by the Pennsylvania State Police in the current driver examinations and by some optometrists as a basic screening device.

In results so far, some employees have discovered serious faults in their vision of which they were completely unaware. Dombrowsky explains that the tests have shown that some persons have gone for many years without an eye examination and have developed deficiencies so gradually that they did not realize that changes were taking place.

The department of personnel services will provide the equipment if other departments or major areas are interested in using the service and will train an operator of the equipment. Individual faculty members interested in having their vision tested should contact their personnel representative or the office of their dean.

A written report of the results of the examination will be sent to each individual.

Of the nearly 480 persons tested to date, 274 have corrective glasses. Of the total number tested it was suggested to 10 per cent that they should have further professional attention.

CALENDAR

Friday, Dec. 16

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby.

Talk by Dr. Martin Weinberger, distinguished visiting professor of art and architectural history, 8 p.m., HUB auditorium, on "Raphael's Sistine Madonna, Its Artistic and Religious Significance."

Sunday, Dec. 18

Chapel Services, 9 a.m. to 11 a.m., Helen Eakin Eisenhower Chapel. Dr. Luther H. Harshbarger, University chaplain. (Please note change of time and place.)

Monday, Dec. 19

State College Color Slide Club meeting, 7:30 p.m., Mineral Industries Auditorium. H. F. McFeely, professor of extension information, on "Photographs 'Round Home.'"

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Meditation Chapel Choirs, directed by James Beach, in a program of Christmas music.

Tuesday, Dec. 20

Agronomy Seminar, 4 p.m., Room 111 Tyson. Dr. H. R. Albrecht, director of Agricultural Extension Service, and William E. Angstadt, Reading Bone Fertilizer Co., on "Human Factors in Professional Careers."

Political Science faculty-graduate student Seminar, 12 noon, HUB dining room "A". Gordon R. Smith, assistant professor of English, on "Was Shakespeare a Renaissance Monarchist or Liberal."

Wednesday, Dec. 21

Christmas Recess begins, 11:50 a.m.

Tuesday, Dec. 27

Centre County Charity Ball, Hetzel Union Building.

Tuesday, Jan. 3

Agronomy Seminar, 4 p.m., Room 111 Tyson. Norman F. Reber, editor, *The Pennsylvania Farmer*.

Thursday, Jan. 5

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. R. S. Mulliken, professor of physics, University of Chicago, on "The Interaction of Electron Donors and Acceptors."

Senate meeting, 4:15 p.m., Room 121 Sparks.

Counseling —

(Continued from page one)

counselors was entirely voluntary. The meetings began late in the afternoon, after the counselors' school day was over in most cases, and were held at a relatively central location, usually at a University campus or center. Illustrative of the interest in the programs is the fact that some counselors drove up to 90 miles to attend.

Dr. Bernreuter explains that the meetings will undoubtedly help the University's admissions work in so far as a better understanding by the student and his parents of the University's policies, procedures, and problems might lead to a better appreciation of what the University is doing.

"We hope that we are helping the guidance and counseling programs in the schools," Dr. Bernreuter says. "That is the most important feature of the program.

"But we do have a selfish motive in that we hope to reduce the number of applications from obviously unqualified students, and eliminate some of the criticisms which arise from lack of knowledge and misunderstanding.

"And of course we are trying to boost the associate degree program because we think it is the answer for many students."

SEASON'S GREETINGS

The next issue of the *Faculty Bulletin* will appear on Friday, Jan. 6, 1961. May we take this opportunity to wish you a very Merry Christmas and a happy and prosperous New Year.

(Continued from page one)

classrooms, studios, laboratories, and offices for the School of the Arts.

The General State Authority has allocated \$3,750,000 for a project which includes this building and also alteration projects elsewhere on campus, to which about \$480,000 has been assigned.

Carnegie Building will be converted to a communications center and will include offices of the department of journalism on the second floor and photographic and related facilities on the ground floor. A studio for television production or for motion pictures will be installed on the first floor. Plans also call for construction of a two-story wing to the west which will house two other studios.

The Stock Judging Pavilion will be converted to an arena-type theatre, seating about 350 persons. The center of the pavilion will be excavated, providing space for classrooms.

The skating rink pavilion will be enclosed with masonry and window walls, serving to increase the utility of the building for year-round activities.

► **FILMS:** Bookings of films to be used next semester are being accepted now by the Audio Visual Aids Library. Faculty members are urged to schedule films for a one-week period which will embrace the expected date of use. The exact day and time of use may be stated later. Forms for requesting film service may be obtained by calling UN 5-6341.

► **ARTISTS:** The Robert Shaw Choral will present the next program in the Artists Series on Sunday, Jan. 8 at 8 p.m. in Recreation Building. Tickets for this concert will go on sale to

the general public on Thursday, Jan. 5 at the HUB desk.

► **SENATE:** The University Senate will meet next on Thursday, Jan. 5 at 4:15 p.m. in Room 121 Sparks.

► **PAINTERS:** The Pattee Library has on hand a number of copies of the catalogue, "Pennsylvania Painters," which was prepared during the Centennial Year, 1955, in connection with the exhibition of the 48 selected paintings by Pennsylvanians from the early 18th to the 20th century. The catalogue may be a suitable Christmas gift. Paperback copies are 50 cents, hardbound copies, \$1.00. Call the Library office, UN 5-5431.

► **SEIDEL:** Herbert Seidel, an East Berlin artist who devotes his life to the art of the church, is represented in 25 prints which the University Christian Association has for sale. The money collected from the sale of these prints, which are originals, is to be sent to the artist, who is in serious financial need. The prints deal largely with Biblical material and would be appropriate for gifts in the Christmas season.

► **BOOKS:** An exhibit of current or recent books by Penn State authors, alumni or faculty, is now on display in the wall cases near the elevator in the Pattee Library foyer. A display of University Press books is included.

About 20 authors are represented in the works of fiction, biography, current affairs, and history. No paperbacks or textbooks are included.

Local bookstores provided some of the books for display and others came from the Penn State Room collection. The latter permanent collection is maintained by contributions of volumes from the authors or from friends.

Items of interest

Lectures and Talks

MATTIL, E. L., art education, at the 10th annual Elementary Teachers Conference at Clarion State College, on "Factors in Art Affecting the Flow of Creative Thinking."

— at the annual Art Education Conference at Edinboro State College, on "Motivation in Education and Art."

— at the Somerset County Institute, on "An Art Program for Junior High Schools."

MILLER, E. W., geography, a talk on "Geography in an Expanding World" before the Teachers Institute, Brandywine School System, Coatesville, Pa.

NIEBEL, B. W., industrial engineering, a talk on "The Use of Random Activity Analysis Camera for Conducting Unbiased Work Sampling Studies."

— a talk on "Engineering Analysis and Design in the Foundry" before the Pittsburgh chapter of the American Foundrymen's Society.

SCHILLING, H. K., Graduate School, a series of six lectures at Oberlin College titled "On the Nature of Science and Religion: A Comparative Study."

SKELL, P. S., chemistry, a talk on "Carbene Chemistry" at an organic symposium of the Cincinnati section of the American Chemical Society on Nov. 30.

TAYLOR, CLARICE G., hotel and institution administration, as a faculty member for a course in "Epidemiology and Control of Food Borne Diseases" in New York, sponsored by the U. S. Dept. of Health, Education, and Welfare.

TORKLESON, G. M., education, discussion and demonstration of instructional materials for teaching of social studies before teachers at Jefferson County Teachers' Conference; also at Centre County Teachers' Institute.

VEON, DOROTHY H., education, talks at the DuBois Center, on "Understanding through Trained Leadership" and at the Hazleton Campus on "Challenge of Today."

WARTIK, THOMAS, chemistry, a colloquium lecture at the University of Michigan on "Amine Complexes of Certain Aluminum Compounds."

ZELKO, H. P., speech, talks on "Communications" and "Decision Making" as lecturer and workshop leader for a conference conducted by the Pennsylvania Society for Crippled Children and Adults.

faculty BULLETIN

Vol. 48, No. 23

Dec. 16, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

CALENDAR

Friday, Jan. 6

Center Stage production of "Summer and Smoke," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. John T. Hack, U. S. Geological Survey, Washington, D.C., on "Dynamic Equilibrium and the Interpretation of Supergene Ore Deposits in the Appalachians."

Saturday, Jan. 7

Center Stage production of "Summer and Smoke," 8 p.m.

Varsity wrestling, versus Lehigh, 7 p.m. Varsity basketball, versus Carnegie Tech, 8:45 p.m., Recreation Building.

Desert-forum sponsored by the University Christian Association for faculty, staff, and graduate students, 8 p.m., Helen Eakin Eisenhower Chapel. Dr. Paul Ramsey, professor of theology, Princeton University, on "The Just War and the Nuclear Dilemma."

Sunday, Jan. 8

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Sehlab Auditorium.

Chapel Service, 10:55 a.m., Sehlab Auditorium. Dr. Paul Ramsey, chairman, department of religion, Princeton University.

Artists Series program by the Robert Shaw Chorale, 8 p.m., Recreation Building.

Monday, Jan. 9

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Helen Guthrie, assistant professor of foods and nutrition, on "The Food Markets in Southeast Asia."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Dr. Vladimir Vand, associate professor of physics, on "Pictures from Britain."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. G. U. Oppel, on "High Temperature Problems in Design of Missiles."

American Chemical Society, Central Pennsylvania Section, meeting 8 p.m., Room 111 Boucke. Dr. Carl Kordes, research chemist, Union Carbide Corp., on "Fuel Cells."

(Continued on page four)

News in brief

► **ARTISTS:** The Robert Shaw Chorale, composed of 42 voices and instrumentalists, will present the next Artists Series program Sunday, Jan. 8 at 8 p.m. in Recreation Building. Tickets for the program have been on sale this week and if any remain may be purchased at the HUB desk.

The four-part program to be presented consists of a motet by Bach, Haydn's "The Sayings of the Savior on the Cross," Carissimi's "Jephthah" and A Ceremony of Carols by Benjamin Britten, contemporary composer.

► **FUEL CELLS:** Dr. Carl Kordes, of the Union Carbide Corporation Research Laboratories, will address the Central Pennsylvania Section of the American Chemical Society Monday, Jan. 9 at 8 p.m. in Room 111 Boucke. He will speak on "Fuel Cells."

► **PSYCHOLOGY:** Two Psychology Department Colloquiums will be held on Wednesday, Jan. 11. At noon, in dining room "A" of the Hetzel Union Building, Dr. Howard S. Hoffman, assistant professor of psychology, will speak on "Approach and Avoidance Generalization Gradients."

Dr. Harry Levin, child psychologist at Cornell University, will speak at 8 p.m. in Room 112 Buckhout on "Audience Stress and Children's Language."

► **MARCH:** The annual March of Dimes campaign will be held in Centre County during the month of January, culminating on Jan. 31 with the Mother's March. One program aided by the Centre County chapter is that of providing vaccine shots to every child and grownup in the County to combat polio. The next vaccination date is Jan. 11.

► **HANDBOOK:** The University Press has published "Underwater Acoustics Handbook," by Dr. Vernon M. Albers, chief scientist, Ordance Research Laboratory. The book provides a convenient and authoritative one-volume source of underwater sound data and information.

► **AAUP:** The executive committee of the Penn State Chapter of the American Association of University Professors will hold an open meeting Tuesday, Jan. 10, at 7:30 p.m. in Room 124 Sparks. Final action on recommendations for constitutional changes will be taken at this meeting and all members of the chapter may attend.

► **EXAMINATION:** The next Graduate Record Examinations will be held Jan. 21 at the University. Bulletins of information and application blanks are available from Dr. Leon R. Kneebone, Room 117 Buckhout. Applicants must submit their applications for Educational Testing Service, 20 Nassau St., Princeton, N. J., no later than Jan. 7.

► **COMMENCEMENT:** A special section of seats on the main floor of Recreation Building will be designated for the members of the faculty and their wives for Commencement exercises on Saturday, Jan. 28 at 10:30 a.m. in an effort to encourage greater attendance by the faculty.

About 700 degrees will be conferred.

► **UCA FORUM:** The University Christian Association is sponsor of a desert-forum which will be held tomorrow night (Saturday, Jan. 7) at 8 p.m. in the Chapel. Dr. Paul Ramsey, professor of theology, Princeton University, will speak on "The Just War and the Nuclear Dilemma." The forum is especially designed for faculty and staff members and graduate students.

Personnel Matters

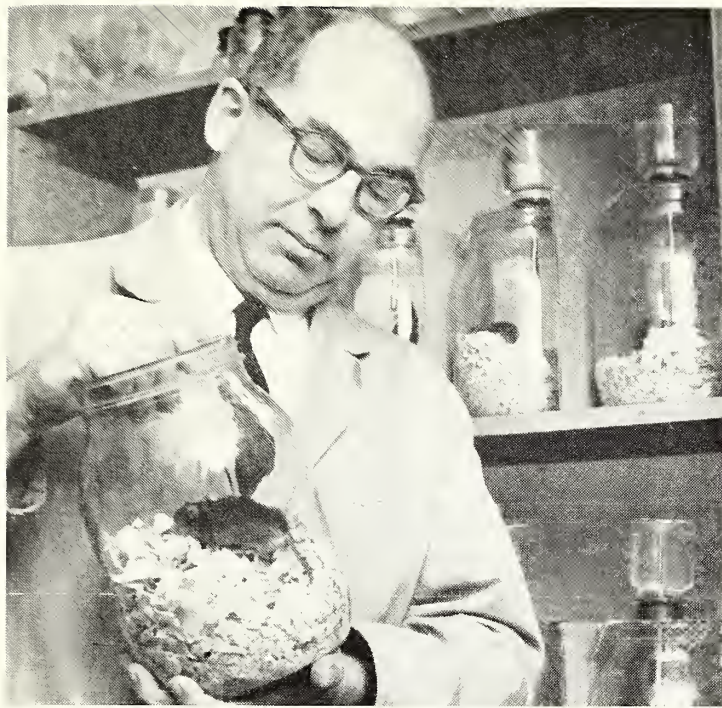
Margaret Batjer Jennings, associate professor of foods and nutrition, will study regional foods of the United States and Italy during a leave of absence for the Spring Semester. She will visit communities and universities in the South, Southwest, Far West, Midwest and New England and plans to go to Italy in April for five weeks.

Dr. Johan H. Hoke and Dr. Earle R. Ryba have been appointed assistant professors of metallurgy.

Dr. Hoke is a Penn State graduate and also earned the master of science degree in metallurgy here. He obtained the doctor of engineering degree from the Johns Hopkins University. He was instructor at John Hopkins from 1950-54. He has also held industrial research positions and comes from the Crucible Steel Co. of America, where he was supervisor of Research on Stainless Steel.

Dr. Ryba is an M.I.T. graduate in chemistry and obtained the doctor of philosophy degree in physical metallurgy from Iowa State. He has held appointments with a number of industrial firms and was a graduate assistant in the U. S. Atomic Energy Commission Laboratory at Ames, Iowa.

George M. Dusenberre, professor of mechanical engineering and a retired Naval officer, died Dec. 31 at the age of 61. He joined the faculty in 1948, after having taught at Delaware, Virginia Polytechnic Institute, and the U. S. Naval Academy. He was a graduate of the Naval Academy and received the master of science degree from Columbia University.



Disease, behavior linked

Dr. David E. Davis, professor of zoology, conducts research studies which in a number of ways tend to link disease with behavior patterns resulting from outside stimuli.

DISEASE in animals, and probably in humans also, can be the result of certain behavioral patterns resulting from outside stimuli, says Dr. David E. Davis, professor of zoology.

"The role of behavior in disease is becoming increasingly apparent to research people," he points out, "and we are now pinpointing certain causes and effects.

(Dr. Davis prefers to speak in terms of behavior in referring to the work with animals. Medical men refer to emotions, such as anger and fear, in reference to humans.)

"We know, for example, that when animals, such as mice, are crowded in their environment there is a significant increase in the size of the adrenal glands.

"The adrenals secrete many types of cortisone-like hormones, some of which inhibit inflammation which normally helps repel the disease organisms. Without adequate protection in the body, the disease can take over."

In laboratory experiments, crowdedness is only one of a number of environmental conditions responsible for an increase in the size of the adrenals. Loud noises, supersonic sounds, and radiation are among the causes already demonstrated.

Dr. Davis spoke on this subject recently at the University of Wisconsin in a lecture series attended by faculty and graduate students. Present were zoologists, veterinary scientists, wildlife people, and also professional men from the medical school.

"The subject is becoming of increasing interest to the medical professions," says Dr. Davis, "especially in the area of psychosomatic medicine."

Some of the studies which have contributed to understanding in this field have been carried on by Dr. Davis himself, both at Johns Hopkins School of Public Health, where he worked

for 13 years, and also at Penn State. He points out that the contributing studies have been performed on laboratory animals and that it is now important to know whether these same relationships hold in nature as well. Consequently most of his present work is related to that end.

At the University of Wisconsin, current studies are concerned with "shipping fever" which hits cattle being transferred long distances closely packed.

"All kinds of organisms are found in the cattle when they develop this fever," Dr. Davis says, "and it is virtually impossible to pin down the fever to any one organism."

It is frequently true that finding solutions to disease problems is made complicated by the fact that more than one organism is active and also that one organism may produce a certain symptom in one case and an entirely different symptom in another.

"The bacteriologist's job is extremely difficult for this reason," Dr. Davis points out. "It may take two years to isolate the virus or bacterium which caused the trouble in one situation, only to find that other viruses or bacteria may produce the same symptoms. A case in point is the fact that a number of specific illnesses have almost the same symptoms as those of mild cases of polio."

Studies in the area of behavior are also complicated by individual or

group differences. Two species of mice, having different social organization, have been shown in the laboratory to react differently to the problem of crowdedness.

"Some studies have shown that if you add numbers to a group, the population will actually decline," says Dr. Davis. "This anomaly may explain the results of a wildlife project underway at Wisconsin.

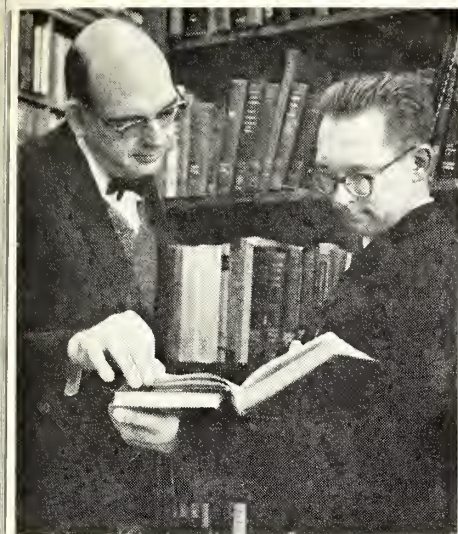
"In this project, which is described as 'put and take' management, pheasants bred in captivity are released to controlled natural surroundings and hunters allowed to kill the birds they can.

"It has been found, in a side study, that the birds which are native to the area are declining, not due to hunting but simply that they are not reproducing as they once did. So far, incidence of disease has not been a factor. Perhaps social behavior is responsible.

"This same effect has been shown repeatedly with laboratory mice."

The correlation between laboratory animals and humans is yet to be established, Dr. Davis points out, but if it is then medicine could conceivably adopt an additional approach to the treatment of many diseases. Even such a common disease as herpes (cold sores and shingles) has been shown in the laboratory to be associated with behavior, in experiments on mice.

Certainly not all disease is the result of behavior but in some situations the accentuation of disease is now more thoroughly understood, Dr. Davis concludes.



Dr. Taft, left, and Dr. Palm.

Estonian guest

DR. ROBERT A. TAFT, professor of chemistry, and Dr. Norman C. Deno, associate professor, were hosts for six weeks, beginning before Thanksgiving, to Dr. Viktor A. Palm, who heads the chair of organic chemistry at Tartu State University, Estonia.

What makes the story unusual is the fact that Estonia is behind the Iron Curtain and Dr. Palm might more readily have visited with scientists at universities in the Soviet Union. He explained, however, that through many publications and through conversations with colleagues he had determined to visit with Drs. Taft and Deno who are internationally recognized for certain aspects of organic chemistry research.

The 34-year-old Dr. Palm, trained in Russia, said that he has no difficulty in getting American scientific publications, except that they are usually about six months late.

La Spezia

THE University has assumed overall responsibility for an anti-submarine warfare research center at La Spezia, Italy. These services have been provided by the Raytheon Co., of Waltham, Mass., which asked to be relieved of the responsibility after the organization phase of the center was completed.

Organized in 1959, the laboratory was developed under a Memorandum of Understanding between Canada, Denmark, France, West Germany, Italy, Netherlands, Norway, United Kingdom, and the United States. The nine NATO nations contribute scientists and technical data for the program, which so far has been concern-

Fellowships

VISITING SCIENTISTS RESEARCH ASSOCIATESHIPS

These associateships with the Quartermaster Research and Engineering Command, U. S. Army, for which well qualified scientists are invited to inquire at any time, have an application deadline of Jan. 31.

Purpose of these awards is to provide investigators of unusual ability an opportunity for exchange of ideas and for basic research in areas of mutual interest to the scientists and the Quartermaster Research Laboratories at Natick, Mass. or Chicago, Ill.

The applicant should have his doctorate with several years of research experience and recognition as a contributor in his field.

Associateships are available in anthropology, biology, biophysics, chemistry, food and nutrition, geography, physiology, psychology, textiles, or any other science listed in the announcement circular.

Appointments are for one year, beginning about Sept. 1, subject to renewal for a second year by mutual agreement. Stipends normally provide about the same spendable income as the recipient's normal salary, but not to exceed \$12,000 per year.

These awards are administered by the National Academy of Sciences — National Research Council, 2101 Constitution Ave., N. W., Washington 25, D. C. Application forms must be obtained from that office. Circulars giving additional information may be examined in the Postdoctoral File in the Graduate School office, 103-107 Willard.

1,500 NATIONAL DEFENSE GRADUATE FELLOWSHIPS

The U. S. Office of Education has announced that 1,500 National Defense Graduate Fellowships will be awarded for 1961-62 in some 400 specially approved new or expanded graduate programs in approximately 140 graduate schools throughout the country.

Purpose of these fellowships, as specified in Title IV of the National Defense Education Act of 1958, is to encourage students to prepare for college and university teaching and to strengthen and extend facilities of graduate training of college and university teachers.

Approved programs throughout the country include most of the main fields of graduate study. Penn State has been awarded nine fellowships, to begin with the Fall 1961 term, four in the biophysics program,

ed largely with oceanographic studies.

Research policy for the center is provided by the Supreme Allied Commander, Atlantic, and a NATO scientific council is advisor.

Two major operating facilities have been acquired since the laboratory was formally commissioned, a 290-foot merchant ship equipped as a sea-going research laboratory, and a large scale digital computer. Personnel at the laboratory consists of 25 internationally-prominent scientists, 31 military representatives, and a supporting staff of 99.

Penn State is one of only a few universities in the country deemed capable of assuming the overall responsibility of the laboratory. When the scientists at the center expressed a de-

two in philosophy, and three in political science and government.

A list of programs and institutions concerned with these fellowship offerings has been posted on the Graduate School bulletin board in Willard Building.

Seniors and certain graduate students considering graduate study elsewhere *should act at once* by writing to institutions having these fellowship programs in the student's major field of interest. Graduate students who by the beginning of the 1961 Fall Term have not completed more than a half-year of graduate study creditable toward the degree to be received on completion of their doctoral program are particularly invited to write, if they are considering study elsewhere.

Deadlines for filing applications at various institutions will probably be in the period Feb. 15-20, since institutions must send their nominations before March 6. Awards will be announced on Mar. 10.

Normally the fellowship is awarded for three years, depending on continued satisfactory scholarship and Congressional appropriations each year. Stipend is \$2,000 for the first year, \$2,200 for the second, and \$2,400 for the third, plus an additional \$400 per year allowance for each dependent. Many institutions exempt tuition or make a grant to cover it.

POSTDOCTORAL RESIDENT RESEARCH ASSOCIATESHIPS

Application deadline is Feb. 1 for these associateships in the basic and applied natural sciences which are administered by the National Academy of Sciences — National Research Council and tenable at 20 Federal agency laboratories, such as the Air Research and Development Command, Agricultural Research Service, National Bureau of Standards, etc.

Purpose of the awards is to provide advanced training in basic research to young investigators of unusual promise who will have completed requirements for a doctoral degree before beginning the associateship. Tenure is one year, beginning any time after July 1, with possibility of renewal. Annual gross stipend, subject to income tax, is \$8,955. Cost of travel and transportation of household effects within allowances permitted will be paid.

Completed applications must reach the Fellowship Office, National Academy of Sciences — National Research Council, 2101 Constitution Ave. N. W., Washington 25, D. C. by Feb. 1. Application forms must be obtained from that office.

sire to work under university direction rather than industrial, Penn State's experience in the operation of the Ordnance Research Laboratory placed it in the forefront of institutions considered.

Walter S. Gabel, retired vice-president of the Mellon National Bank, will act as business manager of the Laboratory. Management of the scientific aspects of the laboratory will remain under Dr. Eugene T. Booth, chief scientist.

Penn State will have a major voice in the selection of personnel, including scientists, for the laboratory. In addition, it is probable that if members of the faculty are in a position to contribute to the work of the laboratory, they will be called on to do so.

Items of interest

Arts

WILCOX, A. G., Hazleton, a capella chorus on a Dylan Thomas poem accepted for performance and discussion at the Composers' Conference sponsored by the Dallas (Texas) Symphony and Dallas Public Library.

Honors and Awards

FREAR, D. E. H., agricultural biochemistry, honored by the Food Law Institute for distinguished service as a member for five years of the Food Protection Committee of the National Research Council.

Articles and Papers

At the annual meeting of the American Association for the Advancement of Science, papers by the following: E. B. Hale, animal behavior; P. B. Baker, anthropology; W. T. Sanders, anthropology; C. R. Carpenter, DARS; Rustum Roy, geochemistry; Tien-Hsi Cheng, zoology.

BROWN, I. V., history, an article on Biblical studies, "The Higher Criticism Comes to America, 1880-1900" in the December issue of the Journal of the Presbyterian Historical Society.

CLEWETT, R. L., marketing, a paper on "The Distribution of New Automobiles: The Case Study in Working Toward More Effective Distribution."

CORSO, J. F., psychology, co-author of "The Design and Evaluation of Maintainable Packaging Methods for Electronic Equipment" in the publication *Ergonomics*, British journal in the field of human engineering.

DIETHORN, W. S., nuclear engineering, a chapter titled "Radioactive Cobalt-60 and its Industrial Applications" in the publication "Cobalt Monograph" published by M. Weissenbruch of Brussels, Belgium.

FREAR, D. E. H., agricultural biochemistry, an article, "Dodecylguanidine Acetate (Dodine) Residues on Apples" with Elizabeth C. Smith and T. G. Bowery, in *Agricultural and Food Chemistry*, November issue.

GROSS, E. A., physical education, an article co-authored with J. A. Casciani, on "The Value of Age, Height, and Weight as a Classification Device for Secondary School Students in the Seven AAHPER Youth Fitness Tests," in the December issue of

the Pennsylvania Journal of Health, Physical Education, and Recreation.

JOHNSTONE, H. W., JR., philosophy (on leave), a paper on "Reason Limited" at a meeting of the Irish Philosophical Club in Ballymascarnlong, Ireland, on Dec. 16.

— lectures at Trinity College, University of Dublin, on "Mirrors of the American Mind" entitled "Charles Peirce: Philosopher of Science and Common Sense" and "William James and The Will to Believe."

MARKHAM, J. W., journalism, an article on radar research in the October issue of *Grassroots* Editor.

MUELLER, E. W., physics, a 100-page article in the series, "Advances in Electronics and Electron Physics" describing the new physical effects discovered and techniques developed in the field emission laboratory.

NISBET, J. S., and BOWHILL, S. A., electrical engineering, papers on "Electron Densities in the F/Region of the Ionosphere from Rocket Measurements" in the *Journal of Geophysical Research*.

SCHROEDER, M. E., agricultural engineering, a paper on "Random Handling and Artificial Drying of Hay Cubes," at the national meeting of the American Society of Agricultural Engineers. Co-author of "The Nutritive Value of Cellophane-Rayon Twine and "Variables Affecting the Energy Required to Shear Forage Materials."

ROWLANDS, R. O., Ordnance Research Lab, an article on "Band Stop Filters" in *Electronic Technology*, November issue.

STOUT, G. J., engineering experiment, a paper on "An Experimental Floor System" at the 16th annual short course in Residential Construction" at the University of Illinois on Jan. 18.

WILLIAMSON, M. A., Engineering and Architecture, a paper, "Staffing the R/D Organization" at an Engineering Institute on Optimizing Research Performance at the University of Wisconsin.

— a paper, "Are We Educating Scientists or Engineers?" before the Middle Atlantic Section, American Society for Engineering Education.

Elected and Appointed

CHARMBURY, H. B., mineral preparation, appointed chairman of the Coal Research Committee, Coal Division, American Mining Congress.

TAFT, R. W., JR., chemistry, appointed associate editor, *Canadian Journal of Chemistry*.

Calendar (Cont.) —

Tuesday, Jan. 10

Physics Colloquium, 4:15 p.m., Room 117 Osmond, Dr. Rustum Roy, professor of geochemistry, on "Phase Transition Experiment and Theory."

Meeting of the executive committee, American Association of University Professors, 7:30 p.m., Room 124 Sparks. Open to all members.

Electrical Engineering Seminar, 4:15 p.m., Room 207 Electrical Engineering. Dr. Norman C. Deno, associate professor of chemistry, on "Applications of Electromagnetic Absorption in Chemistry."

Agronomy Seminar, 4 p.m., Room 111 Tyson. Dr. L. M. Roberts, The Rockefeller Foundation, on "Human Factors in Professional Careers."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Dorothy Roberts Leisner, on "Time and Place in Poetry: A Reading and Discussion."

Wednesday, Jan. 11

Chess Club meeting, 7 p.m., HUB card room.

Graduate Mining Seminar, 3:20 p.m., Room 304 Mineral Industries. Ivan F. Jackson, on "Taxation in Mineral Property Development."

Psychology Colloquia. At noon, in HUB dining room "A", Dr. Howard S. Hoffman, assistant professor of psychology, on "Approach and Avoidance Generalization Gradients." At 8 p.m. in Room 112 Buckhout, Dr. Harry Levin, child psychologist, Cornell University, on "Audience Stress and Children's Language."

Biological Sciences Seminar, 4:15 p.m., Room 109 Armsby (note change from usual time and place). Dr. Ruth Patrick, curator of limnology, The Academy of Natural Sciences, on "Population Studies in Diatoms."

Thursday, Jan. 12

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. F. W. Lampe, associate professor of chemistry, on "Bimolecular Reactions of Ions with Molecules in Radiation Chemistry."

Philosophy Colloquium, 4:15 p.m. (preceded by coffee hour at 3:30) Room 120 Sparks. Dr. Hans Jonas, Professor of Philosophy, New School for Social Science, on "The Practical Uses of Theory."

Friday, Jan. 13

Center Stage production of "Summer and Smoke," 8 p.m.

faculty BULLETIN

Vol. 48, No. 24

Jan. 6, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Agriculture

TWO new divisions have been established, effective Feb. 1, in the College of Agriculture, with the approval of the Board of Trustees at its meeting last week-end.

The new organization establishes the Division of Animal Science and Industry, to consist of the departments of animal industry and nutrition, dairy science, poultry husbandry, and veterinary science; and the Division of Plant Science and Industry, consisting of the School of Forestry and the departments of agronomy and horticulture.

The Division of Biological Science was established in 1959, combining the departments of agricultural and biological chemistry, bacteriology, botany and plant pathology, and zoology and entomology.

Dean Lyman E. Jackson explains that the reorganization will make possible greater program coordination and increased communication among personnel in related fields, especially in the resident education program.

Each division will be directed by a chairman, who will be head of one of the departments within the division. Appointments to the posts will be on a rotating basis, each for a three-year term.

The departments of agricultural economics and rural sociology, agricultural education, and agricultural engineering will continue outside of divisional organization.

NEWS IN BRIEF

► **COMMUNITY:** A course to be designated "Community Development in Underdeveloped Areas," will be offered on the 400 and 500 level during the Spring Semester by the department of agricultural economics and rural sociology.

The course is of special concern to students interested in working in underdeveloped countries of the world after graduation. Dr. Charles F. Freeman, assistant professor of rural sociology, and Dr. M. L. Sill, now director of a private community development organization in India, will teach the course, which will be given as a three-credit course in Rural Soc. 452 or for graduate students as a two-credit course in Rural Soc. 551.

► **TRUSTEES:** James B. Long, of Blue Bell, was re-elected president of the Board of Trustees last weekend. He has been president since 1958.

All other officers of the Board and members of the Executive Committee were re-elected. Officers include Roger W. Rowland, vice-president; Eric A. Walker, secretary; C. S. Wyand, assistant secretary, and McKay Donkin, treasurer.

Members of the Executive Committee include Richardson Dilworth, Milton Fritsche, H. Thomas Hallowell, Jr., William D. Harkins, Ralph Hetzel, Albert E. Maddigan, J. L. Mauthe, Walter W. Patchell, Frank W. Ruth, J. Lewis Williams, and Mr. Rowland. Mr. Long and Dr. Walker serve as ex officio members of the Committee.

► **PHI BETA KAPPA:** Dr. Philip A. Klein, assistant professor of economics, has been elected president of Lambda Chapter of Phi Beta Kappa for the coming year. Other officers elected include David C. Whitmarsh, associate professor of engineering research, secretary; Teresa Cohen, professor of mathematics, treasurer; Carl E. Marquardt, University examiner emeritus, historian; Robert V. Boucher, professor of agricultural and biological chemistry, and Francis E. Hyslop, professor of art, as members of the executive committee.

► **NUCLEAR:** Four engineers from the Saxton Nuclear Experimental Corporation have begun a nuclear operations training program at the University's Reactor. Gordon E. Robinson is in charge of the training program, which will prepare the engineers to become shift supervisors of the Saxton Reactor, which will be a pressurized water-type power reactor and is now under construction at the Saxton plant of the Pennsylvania Electric Co.

► **CHEMICAL:** Dr. Harold E. Lovell, assistant professor of mineral preparation, has been elected chairman of the Central Pennsylvania Section, American Chemical Society, for 1961. Other officers will be Howard B. Palmer, head of the department of fuel technology, vice-chairman; Dr. Carl O. Clagett, professor of ag biochem, secretary; Dr. William A. Steele, assistant professor of chemistry, treasurer; and Dr. Arthur Rose, professor of chemical engineering, councilor.

► **SYMPHONY:** The University Symphony Orchestra, directed by Theodore K. Karhan, associate professor of music, will present its winter concert Tuesday, Jan. 17 at 8:30 p.m. in Schwab Auditorium.

The program will include Brahms' Academic Festival Overture and Caucasian Sketches by Ippolitov-Ivanov played by the orchestra, piano solo, a vocal solo, and a flute-harp duet of a Mozart concerto.

GYMNASTICS

The gymnastics exhibition-competition at Rec Hall, featuring the Soviet Union Olympic team and the American Olympic team, tomorrow night will be telecast by station WFBG-TV, Altoona, Channel 10. Telecast times will be 7-7:30, 8:30-9:30, and 10:30-conclusion.

► **LIBRARY:** During the three-week period between semesters, Pattee Library will observe the following hours:

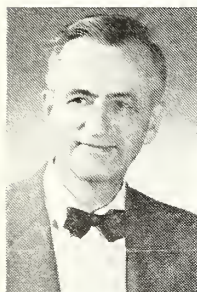
Jan. 17-20, 7:50 a.m. to 11 p.m.
Jan. 21, 7:50 a.m. to 5 p.m.
Jan. 22, 2 p.m. to 11 p.m.
Jan. 23-26, 7:50 a.m. to 11 p.m.
Jan. 27, 7:50 a.m. to 5 p.m.
Jan. 28, 9 a.m. to 12 noon
Jan. 29, closed
Jan. 30-Feb. 3, 9 a.m. to 5 p.m.
Feb. 4, 9 a.m. to 12 noon
Feb. 5, closed
Feb. 6, 7:50 a.m. to 10 p.m.

Rooms 103, 104, 105, 107, reserve reading rooms, will be open for study only (no service) from 10 to 11 p.m. on those days for which 11 p.m. closing hours are indicated. These are the only rooms open for that hour.

► **FORUM:** A dessert-forum sponsored by the University Christian Association will be held Sunday, Jan. 15 in the Helen Eakin Eisenhower Chapel Lounge with The Reverend Eberhard Bethge as speaker on the subject, "An Introduction to the Thought of Dietrich Bonhoeffer." Dessert will be served at 7:30 p.m. and the forum will get underway at 8 p.m. Rev. Bethge is the editor and translator of the Bonhoeffer papers.

More language study urged

IF the United States is losing battles to the Communist world in the field of international relations, and there are signs that this is so, then we can blame it to a considerable extent on our reluctance to change our methods of teaching foreign languages, and on our historical attitude of self-sufficiency with respect to the use of our own language, English.



Krauss

In taking this position, Dr. Franklin B. Krauss, head of the department of Romance Languages, says that the Russians "are determined to initiate and to maintain cultural contact with any and all peoples whom they have, as fortune dictates, some chance of converting to their philosophy of dialectical materialism.

"In this attempt, they consider it to be a matter of paramount importance that they should be able to speak with these peoples in their own languages. The psychological advantage which they have over the contestant who must speak through an interpreter is of as great value to them as the practical advantage of knowing exactly what is transpiring in the negotiations."

Since Americans can through the use of English alone communicate readily with almost everyone across the length and breadth of the U.S.A., they have in the past felt little necessity to study foreign languages. For Europeans, however, who are distributed among many countries of much smaller geographical extent, each of which has its own language, foreign language study is a practical necessity. But in the United States it has, until recently, been thought of as a special study, related more to literature than to needs of immediate, everyday communication. In the past several decades, Dr. Krauss maintains, educators have increased our language insularity by delimiting foreign language studies as "insupportable luxuries in any public school system."

"The Russians, on the other hand, view these studies as a major weapon in their continuous battle to capture the minds of other nations. As a result, foreign language studies are receiving ever more attention in their educational system and are required of all types and levels of students."

Dr. Krauss recognizes that foreign language study is receiving increasing

attention in the United States, but he contends that the emphasis as yet falls short of what is required by our position of leadership in world affairs.

"We must," he says, "also change our methods of teaching foreign languages to the beginning student. Most of our teachers are steeped in the grammar-syntax approach to language, as though the sole aim of language study were to be able to read. Not only is this method too slow as an introduction to a foreign language but it also fails to give the student any training in using the language as a means of oral communication.

"The new method of instruction now being adopted emphasizes the aural-oral techniques — hearing and speaking — which imitate the natural way of learning to speak and to understand a language. In effect, it is the same process by which the child learns his native tongue. Unfortunately, not many teachers are as yet trained to use this method, and some are reluctant to adopt it."

Dr. Krauss emphasizes that he is not advocating the elimination of grammar, syntax, and reading from foreign language study. "Eventually, as in the case of English, the student will receive more and more of such instruction. But his first exposure to the language should be through hearing and speaking; and the earlier the age at which he acquires this experience, the more readily and fully will he respond."

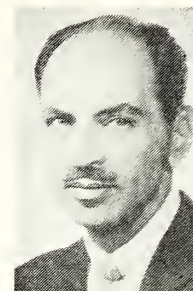
In the October 1960 issue of "The Classical World," Dr. Krauss points out in a lengthy article ("The Battle for International Communication") that those who were trained by the grammar-syntax-reading method acquired, by dint of memorization, a certain facility for reading the foreign language, but that very few developed any ability for expressing themselves in the language orally.

"Our attempts," he stated, "to write in the language were restricted to unconnected sentences in the composition of which we were at every turn directed to model our phrases on the literary accomplishment of one or an-

(Continued on page four)

Personnel Matters

Dr. Jules Heller, professor of fine arts and chairman of the department of fine arts at the University of Southern California, has been named professor of art and director of the school of the Arts effective June 1.



Heller

He succeeds Dr. Albert W. Christ-Janer, now dean of the Art School at Pratt Institute.

Dr. Heller has been on the faculty of U.S.C. since 1946. He is not unknown to the Penn State Campus, hav-

ing served as visiting associate professor of fine arts during the summers of 1955 and 1957. He has also served in the schools of Tempe, Arizona, and at the Union Neighborhood House, Auburn, N. Y.

A graduate of Arizona State College, Dr. Heller received the master of arts degree at Teachers' College, Columbia University, and doctorate at U.S.C.

A number of retirements, resignations, and other changes of status of members of the faculty were reported to the Board of Trustees last week.

RETIREMENTS

Edwin H. Dale, associate professor of agricultural extension, in agricultural correspondence, will retire June 1, after 10 years of service.

William O. Mitchell, Clearfield County agent, will retire Feb. 1 after nearly 36 years of service. He was assistant county agent in Jefferson County before taking the Clearfield post.

Harry S. Sloat, associate county agent, in Lancaster County, will retire Feb. 1 after 39 years of service.

RESIGNATIONS

George S. Bush, associate professor of journalism, will resign Jan. 31 to accept a position as a magazine editor.

LEAVES

Dr. George W. Brindley, head of the department of ceramic technology, will be on leave from Feb. 1 to Aug 1 to do research in the departments of physics and ceramic technology at the Tokyo (Japan) Institute of Technology in the field of electron diffraction. He will also do geologic field work related to clays. He will also lecture.

Lyle R. Bennett, county agricultural agent of Union County, will be on leave from Mar. 1 to Aug. 31.

Charles L. Lutz, assistant county agricultural agent, will be on leave for graduate study from Feb. 1 to Jan. 31, 1962.

Dr. Thomas S. Oakwood, professor of chemistry, will do research involving the composition of lubricating oils while on leave from Feb. 1 to June 30. He will remain on campus, for work in his own laboratory and with the Petroleum Refining Lab.

CALENDAR

Friday, Jan. 13

Faculty meeting, College of Agriculture, 4:15 p.m., Room 109 Armsby.

Center Stage production of "Summer and Smoke," 8 p.m.

Saturday, Jan. 14

Varsity gymnastics, versus Temple, 2 p.m., Rec. Hall.

Gymnastics exhibition and competition by U.S.S.R. team and American Olympic team, 7 p.m. (Telecast by WFBG-TV, Altoona, of portions of the program, 7-7:30 p.m., 8:30-9:30 p.m., and 10:30-11:15 p.m.)

Sunday, Jan. 15

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Eberhard Bethge, editor of the Dietrich Bonhoeffer papers.

UCA dessert-forum, 7:30 p.m., Chapel Lounge. Dr. Eberhard Bethge.

Monday, Jan. 16

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Rev. Preston N. Williams, assistant University chaplain, on "Some Reflections on Discrimination at Penn State."

Materials Science Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Karl Gingerich, on "Non-oxygen High Temperature Materials."

Faculty meeting, College of Education, 4:15 p.m., HUB Assembly Room.

Lectures by Germaine Bree, University of Wisconsin, sponsored by the NDEA French Institute. At 1 p.m. in Mineral Industries Aud., on "Modern Art"; at 8 p.m. in Room 110 Electrical Engineering, on "Proust."

Tuesday, Jan. 17

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. David E. Davis, professor of zoology, on "Behavioral Devices in the Struggle for Space."

University Park Credit Union annual meeting, 8 p.m., Room 111 Boucke. Business meeting and elections. Speaker: Dr. William Tacey, University of Pittsburgh FCU.

Concert by University Symphony Orchestra, 8:30 p.m., Schwab Auditorium.

Wednesday, Jan. 18

Fall Semester Classes end, 11:50 a.m.

Faculty Women's Club pot luck supper, Recreation Bldg., 6 p.m.

Thursday, Jan. 19

Fall semester final examinations begin, 8 a.m.

Friday, Jan. 20

Fluid Mechanics Seminar, 4:10 p.m., Room 211 Mechanical Engineering. Dr. Owen M. Phillips, associate professor of fluid mechanics, on "Hydrodynamic Noise."

NEXT MONTH

Jan. 27 — Fall semester ends, 9:50 p.m.

Jan. 28 — Commencement exercises, Rec Hall, 10:30 a.m.

Feb. 1-4 — Spring Semester registration.

Feb. 4 — Varsity wrestling, versus Maryland.

Feb. 6 — Spring Semester classes begin, 8 a.m.

Feb. 7 — Basketball, versus Bucknell.

Feb. 11 — Gymnastics, versus Army, 2:30 p.m. and Basketball, versus Pitt, 8 p.m.

Feb. 12 — Pittsburgh Symphony Orchestra concert, Artists Series.

Feb. 18 — Merce Cunningham Dance Co., Artists Series.

Feb. 21 — Graduate School lecture series, James Ackerman, art historian, Harvard University.

Office study continues

ONE of the less obvious problems, at least to the public, of the mushrooming enrollments at colleges and universities is that of finding a nook or cranny to give each faculty member a working space when he is not in class.



Wiegand

Penn State, as has every other university, has found it necessary to improvise, to squeeze, and to make - do sometimes crowding six people into a former classroom which should not house more than four. No one has been more acutely aware of the problem than Walter H. Wiegand, head of the department of physical plant planning and construction.

"We have had to do a great amount of revamping of academic buildings since World War II just to make reasonably usable office space in many of our older buildings," he explains. "In many cases the solution forced upon us by economics wasn't what we preferred from the standpoint of usefulness and comfort.

"Most everyone wants a private office, of not less than 150 square feet and preferably larger. If the money were available, we would like to provide such facilities, but it simply hasn't been available. Moreover we find it difficult to justify such facilities for some faculty members who ordinarily spend one-fourth or less of their time in the office.

"We think it is undesirable, from a number of standpoints, to design our buildings with a great many tiny 10 ft. by 10 ft. cubicles in an effort to obtain privacy and we don't believe the faculty member would be happy in that kind of office. Our experience in cutting through walls to combine offices leads us to that conclusion."

Wiegand points out that designs incorporating private offices for everyone are more costly because there is more construction per office, heating and ventilating problems are more severe, and more windows are needed.

It is for these reasons that the present "Faculty Office Study" is going on, with the help of a small grant from the Ford Foundation. The study was initiated to evaluate a design of a two-man office proposed by Wiegand and his staff. (See Faculty Bulletin, Aug. 5, 1960.) Basically the design provides

about as much space per occupant as is commonly used in design practice today but arranged in a manner as to give the impression and usefulness of an office much larger.

"This is a design for faculty members who ordinarily are out of their offices part of the time," Wiegand explains, "and for two men who more than likely would not have the same office hours, although the design does not prevent them from working together. Many of our faculty members now share offices, too often three or more to a room. We believe these people would welcome a facility such as this."

A study of classroom, office, and laboratory space made by the division of accounting a year ago bears out Wiegand's contention. Below is a sampling of data for four major buildings, showing the number of offices in each building listed according to the number of occupants in each office:

Building	No. In Office					7 or more
	1	2	3-4	5-6		
Sparks	26	8	25	18	8	
Boucke	13	21	9	0	3	
Tyson	4	26	8	1	1	
Min. Ind.	11	13	5	2	0	

(These refer only to academic offices but include offices for graduate students as well as faculty members.)

Of especial significance is the large number of offices housing from 3 to 6 persons, Wiegand says.

"While it seems undesirable to confine our designs to private offices, we believe also that it is not good practice to design offices for more than two people, except in special circumstances," he says.

"There are obviously some faculty members who, by the nature of their work, could not use this type of office, such as those who must be next to a laboratory. But there are not in the majority. One of our purposes in proposing this design is to make it possible to combine many of these offices in a wing to a building, and by doing so we can effect even further economies."

The present office study will continue through the Spring Semester. The Division of Academic Services, which is conducting the study, plans to obtain reactions of faculty members who will have offices in the models in Mac Hall and will invite groups of faculty members to view the facilities. In addition to the space arrangements, such factors as lighting, color, heating, ventilating, soundproofing, furniture arrangement, and shelving are being studied.

Language —

(Continued from page two)

other of the acknowledged masters of the language. The result of such instruction has been, invariably, a bore to the students, because most find in it almost no opportunity for self-expression and little motivation in the direction of practical utility."

Dr. Krauss says that everyone, except the dullard, can be taught to speak correctly and after a while with some feeling for what he is saying by sheer repetition of idiomatic patterns of expression.

"This is the reason," he says, "why small children who have been exposed from babyhood to a large vocabulary and correct patterns of speech express themselves more readily and more meaningfully than some persons who are many years their seniors. The language has been built into their psychological processes by the stimulation of hearing and repeating a selective vocabulary properly accommodated to idiomatic patterns of expression, without any recourse to instruction in grammar and syntax."

In Dr. Krauss's opinion, the lack of teachers familiar with the aural-oral method of language instruction is the most serious problem at present, but not the only problem. For a language cannot be taught by this method, until the relatively few patterns that form its basic idiom have been identified by the structural linguist, and until he has arranged them in exercises that progress from the simplest to the more and more complex. His corollary function is to train teachers how to present these materials most effectively by the aural-oral method. Much experimenta-

tion along these lines is still being conducted with regard to the foreign languages that have figured traditionally in our modern foreign language programs of instruction. A vast amount of work yet remains to be done with the languages outside this pattern (African, Near Eastern, Far Eastern), before these can be reduced through the same structural analysis, and before teachers can be trained to present them in the classroom and laboratory.

Language instruction at the initial stage will depend, Dr. Krauss says, more and more on the use in laboratories of mechanical and electronic devices for the faithful reproduction of sound, whereby the students individually and as a class can practice both the aural and the oral exercises by themselves or under the direct supervision of an instructor.

"Strange as it may seem," Dr. Krauss concludes, "the present resurgence of foreign language study in this country was stimulated by evidences of Russian educational and scientific competence, such as the launching of Sputnik I. As a result we are reviewing our school and college programs on a national scale and comparing them with those of the Russians. In this study our deficiency in foreign language instruction stands out as a challenge which must not be ignored.

"We are fighting the Communist world not only for our lives but also for our way of life. Military and scientific superiority may assure us the former. Only linguistic competence on a global scale can help us to maintain the latter."

Items of interest

Lectures and Talks

ASPATURIAN, V. V., political science, a talk on "The Formulation and Implementation of American Foreign Policy" before a seminar of Soviet Diplomacy at Cornell University and at a two-day Institute on American Foreign Policy at the Colgate Rochester Divinity School."

BALLA, R. G., Wilkes Barre, a talk on "Engineering as a Career" before the students of Wilkes Barre G.A.R. school on Career Day.

BIERLY, G. W., Wilkes Barre, a talk on "Crossroads Decisions" for students at Swoyerville High School on Career Day.

BREngle, G. R., Wilkes Barre, a talk on "The Degree that Brings Money" before the Pittston Lions Club.

COSTANZO, A. V., Wilkes Barre, a talk on "Communication Skills," before students of Swoyerville High School on Career Day.

DUQUET, R. T., meteorology, a series of lectures at other colleges on the subject of the non-weather forecasting aspects of meteorology in the visiting scientists program of the American Meteorologic Society.

ELIAS, E. M., York Campus, a talk for the York County and York High School Counselors on Dec. 5.

FALKENHAGEN, NYLA, Behrend Campus, featured lecturer at the Erie Planetarium for December, speaking on "The Star of Bethlehem."

FERREE, W. L., Ogontz, a talk before the Middle States Council for the Social Studies on the subject, "The American Revolution: Inevitable War."

FREUND, E. H., philosophy, a lecture on "The Berlin Situation" at a conference at Cambridge, Mass., sponsored by the American Friends Service Committee, the Committee of Correspondence, and the Tocsin Committee of Harvard and Radcliffe Colleges.

ISENBERG, M. W., architectural engineering, an address before the Northwest chapter, American Institute of Architects, on "Modular Practice in Architecture."

faculty BULLETIN

Vol. 48, No. 25

Jan. 13, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Jan. 20

Fluid Mechanics Seminar, 4:10 p.m., Room 211 Mechanical Engineering. Dr. Owen M. Phillips, associate professor of fluid mechanics, on "Hydrodynamic Noise."

Sunday, Jan. 22

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. H. Richard Niebuhr, Sterling professor of Theology and Christian Ethics, Yale University Divinity School.

Tuesday, Jan. 24

Lecture Series in Biological Sciences, 4:15 p.m., Room 112 Buckhout. Dr. Colin G. Butler, head of the bee department, Rothamsted Experiment Station, England.

Friday, Jan. 27

Fall Semester classes end, 9:50 p.m.

Saturday, Jan. 28

Fall Semester Commencement, 10:30 a.m., Rec Hall.

NEXT MONTH

Feb. 1-4 — Spring Semester registration.
Feb. 4 — Varsity wrestling, versus Maryland.

Feb. 6 — Spring Semester classes begin, 8 a.m.

Feb. 7 — Basketball, versus Bucknell.

Feb. 11 — Gymnastics, versus Army, 2:30 p.m. and Basketball, versus Pitt, 8 p.m.

Feb. 12 — Pittsburgh Symphony Orchestra concert, Artists Series.

Feb. 18 — Merce Cunningham Dance Co., Artists Series.

Feb. 21 — Graduate School lecture series, James Ackerman, art historian, Harvard University.

Feb. 24 — Norman Cousins lectures, 8:30 p.m.

Mar. 2-4 — Players production of "Rashomon."

Mar. 4 — Wrestling, vs. Rutgers.

Mar. 5 — Women's Chorus Concert, combined Glee Clubs.

NEWS IN BRIEF

► **GRADES:** Grades for all students to receive degrees at the January Commencement must be reported to the Registrar's Office, Room 4 Willard, not later than 9 a.m., Wednesday, Jan. 25.

Grades for all other students, the Office reports, must be reported within 48 hours after the final examination. In case of research grades, the deadline is 5:30 p.m., Friday, Jan. 27. Final exams end at 9:50 p.m., Friday, Jan. 27.

A night and after-hour depository for grades has been installed in the southeast door, ground floor rear, and another at the northeast door, first floor front, of the Willard Building.

► **EXAM:** The next National Teachers Examination will be held Saturday, Feb. 11, on campus. Dr. A. V. Kozak, Room 311 Burrowes, has bulletins of information and application blanks. Final registration date is Jan. 27.

► **LA SPEZIA:** The members of the board of directors of the international anti-submarine warfare research center at La Spezia, Italy, have been announced by President Eric A. Walker.

Serving with Dr. Walker will be Walter S. Gabel, managing director; E. T. Booth, scientific director; E. F. Osborn, vice-president for research; McKay Donkin, vice-president for finance and treasurer; and Charles Francis Adams, chairman of the board, Raytheon Co., Waltham, Mass.

► **LION'S DEN:** The Lion's Den in the Hetzel Union Building will close at 10 p.m. on Friday, Jan. 27 and reopen Monday, Jan. 30 at 7:15 a.m.

► **FELLOWSHIP:** Dr. Philip S. Skell, professor of chemistry, has been awarded a National Science Foundation Senior Post-Doctoral Fellowship for the Spring Semester. He will spend the time at the Institute of Organic Chemistry at the University of Munich, Germany. He will give lectures at several European universities while abroad.

► **NIEBUHR:** Dr. H. Richard Niebuhr, who will be the Chapel speaker on Sunday, Jan. 22, will be present at a buffet luncheon following the service. Reservations for the luncheon may be made by calling UN 5-6548.

Dr. Niebuhr, who is Sterling Professor of Theology and Christian Ethics at the Yale University Divinity School, is one of the leading theologians of the western world. Among his books are: "The Sources of Denominationalism"; "The Kingdom of

God in America"; "Christ and the Culture"; and "Radical Monotheism."

► **BIOLOGICAL:** Dr. Colin G. Butler, head of the bee department, Rothamsted (England) Experiment Station, will be the speaker Tuesday, Jan. 24 at 4:15 p.m. in Room 112 Buckhout in the current Lecture Series in the Biological Sciences. Dr. Butler is a noted researcher, and is credited with the discovery of the queen bee substance, royal jelly, and has done much work abroad.

New schedule

The official University Calendar for the period from the beginning of the 1961 Summer Term through the 1962 Spring Term has been announced. It is subject to change without notice.

SUMMER TERM, 1961

June 13-14	(T-W) — Summer Term Registration.
June 15	(Th) — Summer Term Classes begin, 8 a.m.
July 4	(T) — Independence Day recess.
Aug. 24	(Th) — Classes End, 9:55 p.m.
Aug. 26	(Sat) — Commencement.

FALL TERM, 1961

Sept. 24-30	(Sun-Sat) — Orientation Week.
Sept. 27-30	(W-Sat, noon) — Registration.
Oct. 2	(M) — Classes begin, 8 a.m.
Nov. 23	(Th) — Thanksgiving Day recess.
Dec. 12	(T) — Classes end, 9:55 p.m.

WINTER TERM, 1962

Jan. 2-3	(T-W) — Registration.
Jan. 4	(Th) — Classes begin, 8 a.m.
Mar. 14	(W) — Classes end, 9:55 p.m.

SPRING TERM, 1962

Mar. 20-21	(T-W) — Registration.
Mar. 22	(Th) — Classes begin, 8 a.m.
May 30	(W) — Classes end, 9:55 p.m.
June 2	(Sat) — Commencement.

Budget

President Walker said this week that the University has requested an appropriation of \$23,919,014 for the coming year, more than six million dollars above the amount appropriated for 1960-61.

He indicated that the additional funds are needed to raise faculty and staff salaries, to cover the cost of operating the growing physical plant, to admit 1200 more students, and to start new research projects.

It was pointed out in the request that the faculty was now doing more research and teaching more students than any other university in Pennsylvania.

Dr. Walker took cognizance of the statement by Governor David L. Lawrence that new taxes are a prerequisite to any program of expansion by appealing for public support of the taxes needed to finance Penn State's statewide program.

SENATE MINUTES

MINUTES OF THE MEETING OF JANUARY 5, 1961

The University Senate met at 4:15 p.m. on Thursday, January 5, 1961 in Room 121 Sparks Building with Vice President L. E. Dennis presiding. The minutes of the December 1, 1960 meeting were approved as printed in the Faculty Bulletin for December 16, 1960. One hundred eighty-five senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. G. Buss (R. R. Murphy), P. W. Fletcher (W. E. White), D. H. Ford (J. D. Ashby), J. F. Hokanson (R. E. Swope), E. L. Keller (T. S. Goas), N. J. Palladino (F. J. Remick), F. W. Peikert (H. D. Bartlett), and E. R. Queer (E. R. McLaughlin).

New Senator

R. H. Brown elected to serve in place of J. S. Bowman in the College of the Liberal Arts for the Spring Semester, 1961.

From R. G. Bernreuter, Secretary to Senate, a recommendation that Article IV, Section 1 of the By-Laws of the Senate be amended by changing the phrase "from October to June, inclusive" to "from October to August, inclusive." Mr. Dennis stated this would be discussed under new business.

From President Erie A. Walker to Leo H. Sommer, Chairman, Senate Committee on Faculty Affairs, the following:

Under our tenure regulations, the "standing joint committee of the faculty and administration . . . shall consist of five members: two members representing the administration, two teachers selected by the elected members of the University Senate, and a fifth member, the chairman, chosen by the other four."

During the past several years, the Standing Joint Committee has consisted of Dr. A. Witt Hutchison, chairman; Dr. M. Nelson McGeary and Dr. Corliss R. Kinney, representing the faculty; and Dr. H. R. Albrecht and Dean J. R. Rackley, representing the administration. Dr. Kinney has recently retired from service at the University and Dr. McGeary has expressed the wish that he might be permitted to resign from the Standing Committee. Dr. Hutchison is scheduled to go on a sabbatical leave, effective the early part of next year. It seems essential, therefore, that we move to change the composition of the Standing Committee within the near future.

Accordingly, at the conclusion of the February 9, 1961, meeting of the Senate, I shall ask you as chairman of the Senate Committee on Faculty Affairs to convene the elected membership of the Senate for the purpose of selecting replacements on the Standing Committee for Drs. Kinney and McGeary. As soon as the two replacements have been selected, I shall ask the Committee to convene, whereupon the two newly elected members, together with Dr. Albrecht and Dean Rackley, both of whom will continue as administration representatives, will select a new chairman of the Standing Committee.

It is my hope that we can thus have a new Standing Committee selected and ready to serve by no later than March 1, 1961. At the present time I do not foresee any cases that might come before the Standing Committee but it is, as I am sure you will agree, wise for us to have the committee membership in order at all times. Unless I hear from you to the contrary, I shall assume that you will be in attendance at the

February meeting of the Senate, at the conclusion of which I shall ask you to convene the elected members for the purpose of electing two new members to the Standing Committee on Tenure.

This will be discussed under new business.

From D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, a communication announcing the appointments to the Senate Committee on Library which had the approval of President Walker as follows: *Senate Committee on Library* — C. L. Hosler, Chairman, Mineral Industries; Ruth Gates, Vice Chairman, Home Economics; A. J. G. Maw, Agriculture; A. L. Williams, Business Administration; E. W. Mueller, Chemistry and Physics; H. K. Hutton, Education; O. E. Lancaster, Engineering and Architecture; H. E. Dickson, Liberal Arts; Della Durant, Physical Education and Athletics; H. K. Schilling, Graduate School; R. E. Eiche, Commonwealth Campus Director; L. E. Dennis, ex officio; E. F. Osborn, ex officio; R. W. McComb, ex officio. *Other appointments* — 1. Mary Fuqua replaces Ruth Gates on Senate Committee on Continuing Education Policy. 2. Gerald Bosch replaces H. K. Hutton on Senate Committee on Continuing Education Policy.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals listed under I. The motion was seconded and passed. The complete report is on file in the office of the secretary.

C. J. Smith, Vice Chairman of the SENATE COMMITTEE ON MILITARY INSTRUCTION, presented the report which had been distributed with the agenda as Appendix "B." He moved adoption of the recommendations as proposed for changing the S-rules with the understanding that the Rules Committee will probably renumber all the rules. The motion was seconded. In the discussion W. G. Mather questioned whether this would confirm R.O.T.C. as being compulsory on this Campus and stated that he would like to have the matter debated. Mr. Smith pointed out that these recommendations were bringing the regulations into line with the existing policy of the University, and that any items concerning policy should come from the Educational Policy Committee. J. J. Sehanz, Chairman of the Educational Policy Committee, stated the Committee was studying the question and had had reports from two members of the Committee who had been in Washington and interviewed members from the Department of Defense and Mr. Finucane. Mr. Mather asked that the interpretation be entered in the minutes that

The Senate Committee on Military Instruction was acting on the premise (under 1, 2.) that it is the intent of the Committee to follow as fully as possible the University policy of requiring R.O.T.C. of all male students because it is "educationally desirable" and because it is "essential to the national military establishment."

and that the question as to whether R.O.T.C. should be required or voluntary did not come under the purview of this Committee.

After discussion on the qualifications of the R.O.T.C. personnel and the removal of the age limit the motion was passed. The regulations as passed are as follows:

Reserve Officers Training Corps Army, Navy, and Air Force

S-1. Basic R.O.T.C. instruction in one of the established units shall be required of

each male student except in the following cases:

- a. An alien;
 - b. A student who has completed at least six months active duty with a United States military service;
 - c. A student who has successfully completed the Marine Corps Platoon Leaders Class (Junior);
 - d. A student ineligible by Department of Defense Regulations to receive R.O.T.C. training at the expense of the United States;
 - e. A student taking special work for a limited period;
 - f. A part-time student who is a candidate for a degree;
 - g. A student who is a graduate of another college;
 - h. A student who enters this University after a year of full time studies at another college, unless he had begun the required basic R.O.T.C. course at another institution;
 - i. A student attending a Commonwealth Campus of The Pennsylvania State University where R.O.T.C. is not offered;
 - j. A student who transfers to the University Park Campus from a Commonwealth Campus after a year of full-time studies at the Commonwealth Campus, unless he has begun the required basic R.O.T.C. course at the Commonwealth Campus;
 - k. A student excused by the Senate Committee on Military Instruction or the President of the University for cogent reasons.
- S-2. Basic R.O.T.C. instruction in one of the established units shall be required of male students physically unfit for active military duty, except that such students shall not be required to attend drills.
- S-3. Credits for R.O.T.C. courses shall be evaluated according to the same standard by which other courses of the several curriculums of the University are measured.
- S-4. A male student who does not take R.O.T.C. for any reason must earn the same number of credits for graduation as a student taking R.O.T.C. except as follows:
- a. A student who has completed at least six months active duty with a United States military service; a student who is a graduate of another college;
 - b. A student who is exempt under rule S-1 c. Such a student shall have his graduation requirements reduced by three credits;
 - c. A student exempted under rules S-1 h or S-1 j. Such a student shall have his graduation requirements reduced by one credit for each full term of advanced standing allowed to him up to a maximum of six credits.
- S-5. A male student enrolled in the University whose official record does not specify that he has been exempted from R.O.T.C. shall be immediately scheduled for R.O.T.C. subject to quota limitations and regulations of the Units and shall continue to be scheduled for R.O.T.C. in each successive term of enrollment until he completes the basic R.O.T.C. program. A student who petitions for exemption shall attend the R.O.T.C. classes to which assigned until he receives official notice of exemption.
- S-6. A male student otherwise excused who elects R.O.T.C. shall successfully complete basic R.O.T.C.
- S-7. A student who is accepted for an advanced course in Army or Air Force R.O.T.C. or the four-year Navy R.O.T.C. course shall be required to complete that course including the acceptance of a commission, if offered, as a prerequisite for his being graduated from The Pennsylvania State University, unless excused from this requirement

(Continued on page four)

Public service program urged

PENN STATE's plan to implement the "Peace Corps" proposal of President-elect John F. Kennedy is in effect a suggestion that colleges and universities with the assistance of the Federal Government take a broader responsibility in training college students for public service than they do now.

The plan envisions a program of basic and advanced instruction for undergraduate students which would prepare them for service in the military, civil defense, or foreign technical assistance areas of public service.

"The proposed plan is not," says Lawrence E. Dennis, vice-president for academic affairs, "a device either to expand or to curtail the R.O.T.C. program which the Federal Government now supports in part.

"Rather it is a recognition that public service exists in other than military areas and that today's students should plan to devote some of their post-college careers to one or more of the areas of public service."

The University's proposal to President Kennedy only briefly outlined the results of discussions by President Eric A. Walker and his staff. In the letter explaining the idea, it was pointed out that all freshmen and sophomore students would be required to enroll in one of the areas of study offered if the college or university had a Peace Corps program. As upperclassmen, if they volunteered and were selected for the advanced program, they could work toward a reserve commission or certification with limited-period service assignments in civil defense, military, or overseas technical assistance programs.

"The student's training for public service should not be viewed as consisting only of the specific work he would take under the basic and advanced program," Dennis says. "His entire academic career contributes to his usefulness to public service and his talents as an accountant, an engineer, a teacher, or a home economist should be considered."

Of special significance in the plan is what the students would do with the training they would get. If, explains Dennis, they did not volunteer for the advanced course or were not selected, they would have had in their first two years a program which would contribute to their activities in the community.

"The present R.O.T.C. program is considered of value even for those students who do not take the advanced program," he says. "There is no reason students selecting one of the other basic options would not also

benefit themselves as well as their communities. As future leaders, they can exert a strong influence at home, if they have learned to accept their distinctive responsibility for public service and if they have had some training."

For the advanced students, the pathways to service are many. Those available to students taking the military option are more obvious. Students who would take civil defense or technical assistance options could conceivably complete a required government service program of one or more years either at home or abroad.

"Some R.O.T.C. graduates, after active duty for one or two years, as required, decide to make the military a career," Dennis points out. "I see no reason why this could not also be true of those students taking one of the other options; that they might elect to make careers out of foreign service or civil defense activities."

The Penn State Plan fits perfectly in President Kennedy's Peace Corps idea, which views the young recent college graduate as excellent material for overseas service. Probably each person accepted for the Peace Corps would undergo a period of training for specific duties abroad under the aegis of an appropriate federal agency. Under the Penn State Plan the student would enter this training with a good background.

Undoubtedly the program would require additional courses and facilities, Dennis explains, but it could be designed to be assimilated by present curriculums without much difficulty. The amount of time spent on specific courses would be equivalent to that spent on the present R.O.T.C. program.

"Those students who now object to R.O.T.C. training should be able to find in this program an opportunity to their liking which would prepare them for public service," Dennis says. "The broadening of the Federal Government's participation in this area of university programs would simply be a recognition of the fact that students can be of service in ways other than military."

Faculty and graduate students may now borrow on inter-library loan, microfilm of current foreign newspapers as a result of the Library's subscription to the Foreign Newspaper Microfilm Project sponsored by the Association of Research Libraries and administered by the Midwest Inter-Library Center in Chicago. This subscription was made possible by the special fund recently granted to the Library.

The project provides for the cooperative acquisition in microfilm form of foreign newspapers beginning with January, 1956. A list of the titles now included in the project is available at Readers' Service Office, Room 202 A, Pattee Library, where arrangements may be made to borrow titles. Where positive microfilms are available from a newspaper publisher or other source, the Project subscribes to a copy for the joint use of subscribers. Where microfilm positives are not available, the Project endeavors to acquire the original newspaper and have a negative and positive microfilm copy made. Libraries which subscribe to the Project have prompt access by loan to 143 different titles for a cost roughly equal to the direct acquisition of eight or ten titles.

Subscribers to the Project may also benefit from the 640,000 feet of negative film of the foreign newspapers Harvard Library has been microfilming since 1938. These have been turned over to the Project and although at present they are not available for loan, subscribers may purchase positive prints at the cost of the positive print only.

In addition to access to the foreign newspaper depository, the Pattee Library owns the following files of newspapers on microfilm:

Izvestia. Feb. 28, 1917-Je. 1959.

Manchester Guardian. Jan. 1944-Apr. 1947. Jan. 1959-June 1960. s.v. beginning July 1960. standing order beginning July 1960. Library has bound volumes for Apr. 1947-Dec. 1958.

Pravda. Mar. 5, 1917-Dec. 1953.

Times, London. Jan. 1944-Dec. 1952. Library has bound volumes for 1809-1943.

PARKING

To clarify the regulations regarding parking in areas other than that to which a faculty or staff member has been assigned, the following information has been provided:

1. A faculty or staff member may park in an area other than his own only if (1) his assigned area is filled, or (2) either a "Floating Any Area Permit" or a "Special Parking Permit" is used.

2. If the assigned area is filled, the Campus Patrol should be called immediately after parking in another area, giving the following information: the area to which the car is assigned, the area in which the car is parked, and the license number.

Senate —

(Continued from page two)

as provided by the pertinent Armed Forces Regulations.

S-S. Enforcement of these regulations shall be the responsibility of the student's department head and the Dean of Admissions.

The Complete report is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "C" as an informational report and asked that in the Third paragraph "rule P-4" be changed to "rule D-4". He moved that the report as corrected be received. The motion was seconded and passed. The report is as follows:

I. The task of adapting the Senate Regulations for Undergraduate Students to the term system was referred to the Senate Committee on Rules. We wish to report on the status of this revision.

There are three types of revisions required. First, there are changes of an editorial kind, where a substitution of "term" for "semester" does not affect procedures or the application of the rule. For example, see Rule C-2. The Rules Committee proposes to make these changes as a part of its work in codifying and publishing the booklet.

Second, there are substantive changes required. Where such changes seem necessary the Rules Committee has referred the problem to another committee of the Senate. In particular, changes in the P-rules, in some of the O-rules and in some of the E-rules have been referred to the Academic Standards Committee. The Rules Committee proposes to handle any substantive changes by referral to the appropriate committee.

Third, there are rules in which time intervals and dates are involved. For example, see Rule D-4 where the interval of two weeks is mentioned. In such cases and where no specific recommendation is made by another committee, the Rules Committee proposes to make the changes on the basis of the ratio of the length of a semester to a term. Thus a two weeks interval on a semester calendar becomes ten days on a term calendar.

This information is presented to Senate as a progress report and as a means of asking for further specific comments and suggestions concerning various rules.

II. The Rules Committee wishes to advise the Senate of the need to modify the format of the booklet, Senate Regulations for Undergraduate Students. At present this booklet contains specific regulations and rules, with the exception of U-1 which is a statement of policy concerning the use of automobiles.

However, there is now a policy statement on class attendance applicable to students and of which they should be informed. In addition the Student Affairs Committee expects to formulate policy statements on Student Conduct, Student Activities and Student Social Organizations. A part of the booklet issued for 1961-62 will need to contain these policy statements in such a form as to distinguish them from rules.

At present the booklet contains regulations applying (a) to all students in the University and (b) to students on the University Park Campus only. The booklet should be divided in such a way as to distinguish between rules which are applicable to students in general and those which are applicable on some campuses only. This problem will be intensified when rules governing student conduct, activities and social organizations are written for the University Park Campus and the Commonwealth Campuses.

The Rules Committee hopes to modify the format of the booklet for the next year by changing its title to "Senate Policies and Rules for Undergraduate Students" and by a three-fold division of Contents into — I. Policies, II. General Rules, III. Rules for Particular Campuses. It will welcome suggestions and comments from the members of the Senate pertaining to this work of codification and publication.

J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, in presenting the report of the Committee which had been distributed at the meeting stated the Committee had the privilege of selecting 110 students for scholarships based on scholarship. There had been 321 applicants. He moved that the report be accepted. The motion was seconded and passed. The nominees for the scholarships are as follows:

Louise Carnegie Scholarships

Thompson, William Horn, Ch E, \$100; Bundy, Barbara Ann, Ek Ed, \$100; Jochem, Lurene Maybury, H Ec, \$100; Hite, David Arthur, B A, \$100; Scott, Charles George, Aro E, \$100; Ake, George Allan, E Sc, \$100; Fitting, Robert Clarence, E E, \$100; Thom-

as, Wilbur Park, Ag Ed, \$100; Gordon, Joyce Hazel, B A, \$100; Brown, Royal Scott, Arts, \$100; Warren, William Z., E Sc, \$100; Lagally, Max Gunter, Phys, \$100.

Class of 1921 Scholarships

Neuberger, Eve Leah, A & L, \$200; Rimm, Sandra May, Chem, \$200; Panameroff, Rita, A & L, \$200; Ceol, Edward James, B A, \$200; Klanchar, James Emil, AB Ch, \$200; Carney, Edward Vincent, A & L, \$100.

Espy Scholarship

Sabella, Dolores Margaret, Chem, \$150.

General Scholarships

Abrams, Edward, P M, \$200; Frankhouser, Richard Clair, A & L, \$300; Williams, Kenneth Frederick, C E, \$200; Koot, Ronald S., B A, \$200; Briggs, David Lawrence, E Mch, \$200; Kube, Peggy Ann, Ph Ed, \$200; Vieyra, Gay Ann, Ph Ed, \$200; Bruckner, Werner Klaus, For, \$200; Meier, Louis August, Ph Ed, \$200; Straley, Richard Kirk, P M, \$200; Thompson, Thomas Leigh, Ag E, \$200; Guidotti, Ronald Armand, Chem, \$200; Cheplick, Peter George, Ch E, \$200; Crumrine, Ralph James, E E, \$120.

1920 Class Scholarships

Callaway, Janet Louise, A & L, \$100; King, Franklin George, Ch E, \$100; Eno, Carol Ann, A & L, \$100; Frumer, Michael Reuben, A & L, \$100; Reitman, Jerry Irving, B A, \$100; Clinton, James Martin, P V, \$100; Killen, Paula Gallagher, Ek Ed, \$100; Johnstone, Robert Edward, C E, \$100.

Class of 1922 Memorial Scholarships

Monoker, Judith Ann, Psy, \$100; Stevens, Marla Jane, A & L, \$100; Common, Susan Anne, Journ, \$100; Thomas, Marie Immaculata, H Ec, \$100; Seidel, Gerald Samuel, Jr., Aro E, \$100; Hibbard, Jeffrey Lyn, E E, \$100; Janowski, Diane, Sec Ed, \$100; Hoffman, Beverly Diane, A & L, \$100; Houser, Mary Ruth, A & L, \$100; Lucas, Patricia Ann, Psy, \$100.

Alcoa Awards

Reiter, Richard Raymond, Hort, \$300; Savits, Thomas Harland, E E, \$325.

Chimes Award

Bohnenberger, Jill Margaret, Journ, \$75. Mary Thompson Dale Memorial Scholarship Kardos, Mary C., Med T, \$100.

Vance C. McCormick Scholarships

Malinchock, Robert Gene, E E, \$150; Dandrea, Albert John, E Sc, \$120.

Texaco Scholarships

Atwater, Marshall A., Meteo, \$300; Formoso, Carl Joseph, Ch E, \$300.

— CONTINUED NEXT WEEK —

faculty BULLETIN

Vol. 48, No. 26

Jan. 20, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

From the president

TO ALL FACULTY AND STAFF:

WITHIN a few days each of you will receive a copy of the Alumni Association's *Penn Stater*, which will be mailed also to all alumni, and which contains a summary and justification of the University's State appropriation request for the fiscal year 1961-62.

In his budget message on January 16, Governor Lawrence proposed to the Legislature that it promptly appropriate funds to education (including Penn State) at the levels granted back in 1959. "We may then," he continues, "consider such further action as may be indicated by Congressional decisions and by the recommendations of the Governor's Committee [on education]. It should be clear, however, that programs which are more costly than the provisions of this budget will necessarily require new taxes either at the State or at the local level or both."

In an earlier press conference, the Governor had observed that if education wanted larger appropriations, it should be willing to help find the money for them. This makes sense to me, and I have notified the Governor that I am placing the issue squarely before all of the Pennsylvanians who are demanding more resident education, continuing education and research from us.

In my appropriation request to the Governor, I specified that we would need four million dollars more than the State appropriated to the University on an annual basis in 1959 if we are to keep the present program going.

(Continued on page three)

NEWS IN BRIEF

► **TEACHER:** A dinner to honor the University's "Teacher of the Year" will be held on Wednesday, Feb. 8, in a program initiated this year by the Penn State Alumni Club of Centre County.

Dr. Harold E. Dickson, professor of art, will be the honored guest this year. He received the University's Superior Teaching Award at Commencement last June.

Interested Centre Countians as well as local alumni are invited to attend the event to honor Dr. Dickson, who will make the main address. It will be held at 6:30 p.m. in HUB ballroom. Tickets are \$2.50 per person and reservations may be made through reservation chairman, Nora Wittman, Locust Lane Apts., AD 7-4148. Reservation deadline is Saturday, Feb. 4.

► **ADMISSIONS:** About 520 new students will begin classes at University Park and about 110 at other campuses, data supplied by the Dean of Admissions and Registrar as of last Friday indicates.

Of those who had been offered admission at University Park and accepted, 93 were new freshmen (one an associate degree candidate), 223 were from other campuses, 170 were students readmitted, and 38 entering with advanced standing from other colleges and universities.

At other campuses and centers, 97 bachelor's degree and 19 associate degree students had accepted an offer of admission.

Last year a comparable number of students entered, transferred, or were readmitted.

► **COMMENCEMENT:** Approximately 825 graduate and undergraduate students will receive degrees at Commencement Exercises tomorrow (Saturday, Jan. 28) at 10:30 a.m. in Recreation Building, including 123 who completed work for their degrees last August.

Bachelor's degree candidates number 552, master's 202, and doctor of philosophy 69.

► **MEMORIAL:** Concert pianist Irene Schreier will present a recital in memory of the late Dr. Viktor Lowenfeld Tuesday, April 11, at 8 p.m. in the Hillel Foundation Auditorium. Dr. Lowenfeld was head of the department of art education from 1946 until his death last year.

Miss Schreier is an internationally-known pianist, born in Vienna, trained in Austria and in this country. She returned to Europe for further study and for an extended concert tour

which took her to England, Holland, Scandinavia, Switzerland, Austria, and Germany. She has appeared from coast to coast in this country.

► **SCIENCE:** About 350 science teachers from junior and senior colleges will take part in the National Science Foundation's 1961 program of Research Participation for College Science Teachers. Penn State is one of 41 colleges and universities participating in the program.

The teachers will do research with recognized authorities. The Foundation has provided grants in three areas for a nine-week period next summer. They include a \$15,920 grant for a psychology program, which will be directed by Dr. William M. Lepley; a \$9,835 grant for studies in chemistry, directed by Dr. M. J. Montjar; and in physics, for the same amount, to be directed by Dr. John A. Sauer.

► **CHEMICAL:** The Central Pennsylvania Section will hold its monthly meeting at 8 p.m., Wednesday, Feb. 1 in Room 214 Boucke. Dr. Philip L. de Bruyn, associate professor of metallurgy, Massachusetts Institute of Technology, will speak on "Comparative Adsorption Studies at some Solid/Liquid Interfaces."

► **DECEASED:** Edith Pitt Chace Flint, for 20 years director of home economics before her retirement in 1937, died Jan. 20 at the age of 88. Mrs. Flint, whose husband died only last month, was named director of home economics in 1918, coming from Columbia University where she was a member of the household arts faculty.

Among her accomplishments were the establishment of a home management house, opened in 1919, and of the nursery school in 1925. It was during her tenure that the Home Economics Building was constructed.

► **TRUSTEE:** John H. Light, of Annville, trustee of the University from 1939 to 1955, died Jan. 21 at the age of 85. He was State Secretary of Agriculture from 1939 to 1943. He retired from politics recently after five terms in the State House of Representatives.

► **LECTURES:** The Spring Semester program of the Graduate School Lecture Series will begin Tuesday, Feb. 21 with a talk by James A. Ackerman, professor of art and architecture, Harvard University, but currently a visiting fellow at Princeton. He will speak on "Abstract Art: The Critics Neme-

(Continued on page four)

SENATE MINUTES

Continued from Jan. 20 issue

Lawrence J. Ostermayer Memorial Scholarships

Baker, Dorothy, Chem, \$100; Carnes, James Edward, E Sc, \$100; Steinberg, Milton Louis, A & L, \$100; Wisler, David Charles, Aro E, \$100; Myers, Joel Norman, Meteo, \$100; Musser, Jeffrey Merritt, E E, \$100; Williams, George Herbert, Jr., For, \$100; Hughes, G. Nancy, Art Ed, \$100; Mills, Mary Katherine, Journ, \$100; Wenderoth, John Henry, For, \$100; Metz, Glen William, Ag E, \$100; Weitzel, Carol Susanna, H Ec, \$100; Spotto, Samuel Laurence, B A, \$100; Gorenstein, Marlene Sandra, Psy, \$100; Taylor, Alice Montgomery, A & L, \$100; Waskell, Lucy Ann, P M, \$100; Leavitt, Jacqueline, A & L, \$100; Boario, Thomas Joseph, Conserv, \$100; Hurayt, Gerald, Chem, \$100; Yoder, Lloyd William, E E, \$100; Greskovich, Eugene Joseph, Ch E, \$100.

Garner-Rothrock Memorial Scholarships

Cupples, Barrett L., Chem, \$150, Rundquist, David Edwin, E Sc, \$80.

School Administrator's Scholarships

Wanner, Janice Helen, H Ec, \$200; Evans, Bonnie Jane, Sec Ed, \$200; Hartman, Marshall Lee, B A, \$200; Denlinger, Edgar Jacob, E Sc, \$200; O'Leary, Keith Daniel, Psy, \$200; Currie, Glenn Edgar, PNG E, \$200; Raymont, Richard James, A & L, \$200; Hersperger, Donna Gaile, Sec Ed, \$200; Bradley, Martin Robert, A & L, \$200; Prunella, Linda Lee, Sec Ed, \$200.

Lt. Harry Edward Wagner Scholarships

Sterner, George Rudolph, Aro E, \$100; Tschopp, Larry Leroy, E Sc, \$100; Abplanalp, Paul LeRoy, Psy, \$100; Lowthert, David Robert, B A, \$100.

Helen Wood Morris Scholarships

Schneider, Susan Jenny, AB Ch, \$62.50; Peck, Gnevera Gage, A & L, \$62.50.

John W. White Scholarships

Cope, Carolyn Joan, Sec Ed, \$200; Hagan, Patricia Marie, Chem, \$150; Steyer, Min-delle, A & L, \$100; Townsend, E. Jane, Ap Art, \$50.

Ethyl and Bayard Kunkle Scholarships

Miller, Franklin John, P M, \$250; Prokopowicz, Lorraine Mary, A & L, \$250; Bartolletti, Charles Spencer, Phys, \$250; Hatch, Richard Thomas, Sec Ed, \$250; McCallister, Anita Rosemarie, Sec Ed, \$250; Crouse, Parker Eugene, E Sc, \$250; Miller, Jesse William, Geog, \$250; Platt, Kenneth Bradley, P V, \$250.

Unfinished Business

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, moved that Article II, Section 1 (f) of the Senate By-Laws be changed to read:

Continuing Education Policy, one member from each of the Colleges, and the Graduate School, and the Directors of Continuing Education and Agricultural and Home Economics Extension, ex officio, nonvoting.
The motion was seconded and passed.

New Business

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, in response to the request of the secretary to the Senate to change Article IV, Section 1 of the By-Laws of the Senate to read "from October to August, inclusive," moved the adoption of this amendment. The motion was seconded. The report which will lie on the table until next month is as follows:

Article IV Meetings

Section 1.

Regular meetings of the University Senate shall be held at the beginning of the sixth period on the first Thursday of each month from October to August inclusive,

except as otherwise provided in Section 3 of this Article. In announcing any meeting of the University Senate, the chairman may invite the attendance of visitors from the general faculty.

With reference to the letter from President Walker to L. H. Sommer, Chairman of the SENATE COMMITTEE ON FACULTY AFFAIRS, Mr. Sommer stated that at the close of the February meeting of the Senate he will convene the elected members of the Senate for the purpose of nominating replacements for C. R. Kinney and M. N. McGeary. R. G. Stoner suggested that a nominating committee be appointed, but Mr. Sommer stated that he would rely on floor nominations only.

Comments and Recommendations for the Good of the University

Mr. Dennis made the following comments: For the first time in several years one party is in control of the legislative and executive branches of both the State and Federal Governments. Higher education will come in for a good deal of attention. In the next few months we will be reading about junior colleges, educational television, proposed revisions in the National Defense Education Act, scholarships and loans for higher education, and federal support for research programs of one kind or another. All of these things are going to come in for a good deal of public discussion. President Walker is going to do everything possible to see to it that the interests of this University are represented in whatever hearings may be called by the various branches of the Government. Faculty members are requested to keep the administration informed of anything they may hear concerning governmental activities in education.

In the Commonwealth, the biennium basis for appropriation will cease to exist and an annual basis will begin. The Governor has refrained from submitting recommendations on education, awaiting the report of the committee on education and the task force on higher education in February or early in March. It will therefore be six to eight weeks before we know what the executive branch is going to recommend to the legislature. The University's request for an appropriation will not be announced until the Governor has made his recommendations to the legislature.

With reference to the 4-term academic year Mr. Dennis mentioned that many groups are working overtime. In the near future more information can be released relating to the various aspects of the 4-term plan. It is hoped that the final schedule will be more attractive than in the past, and will provide the faculty with larger blocks of time for scholarly pursuits.

In reference to R.O.T.C. Mr. Dennis stated that the new national administration has proposed a "Peace Corps." Penn State made a suggestion in this regard to President-elect Kennedy after November 9, 1960. (Secretary's note for the information of the Senate. The communication from President Walker to President-elect Kennedy to which Vice President Dennis referred is as follows:

November 23, 1960

President-elect John F. Kennedy
Esso Building
261 Constitution Avenue N.W.
Washington, D. C.

Dear Senator Kennedy:

The idea of a "Peace Corps" that you set forth in the presidential campaign presents colleges and universities with a most significant opportunity in their role of preparing young men and women for greater public responsibility and service. Up to the present, the only widespread, sustained national effort toward preparation for public service has been in the military field through the Reserve Officers Training Corps — but, as

you know, the R.O.T.C. programs are currently undergoing careful re-examination in both the educational and defense establishments.

We suggest that a logical response by colleges and universities to the challenge to higher education implicit in your "Peace Corps" idea would lie in a greatly broadened and modified R.O.T.C. concept — an educational program designed, first, to increase every student's awareness of his public responsibilities, and, second, to prepare selected leaders for professional services in either the military, civil defense, or overseas technical assistance areas.

What we propose, in brief, is the establishment of a joint "Peace Corps" program between the federal government and selected institutions of higher learning. All students — men and women — enrolling as freshmen and sophomores in a college or university with a Peace Corps Program would be required to choose one of the basic academic areas in either foreign service, civil defense, or military training. Those upper-classmen who later volunteer and are selected for the advance program would, upon completion of their baccalaureate degrees, receive reserve commissions or certificates with limited-period service assignments and further training as might be required by the appropriate federal agencies. You will recognize this proposed pattern as an adaptation of the existing R.O.T.C. "basic" and "advanced" programs, but with a much broader scope, a more substantive content, and an emphasis that is more relevant to the problems of our time.

Questions of organization, curriculum planning, financing, federal aid to education, and many others would of course require the joint attention of institutions of higher learning and the government, and representatives of both should participate in the planning. Should the merits of this proposal recommend themselves to you, you may be assured that representatives of The Pennsylvania State University would be prepared, upon your suggestion, to join with members of your staff in further exploration of the idea.

Sincerely,
Eric A. Walker
President

E. B. VanOrmer made the following announcement:

This announcement is being made for the benefit of seniors and graduate students. By tomorrow or not later than Monday we should receive from the United States Office of Education a several page announcement of the 1,500 National Defense Graduate Fellowships which the Commissioner of Education will award for 1961-62 in some 400 specially approved new or expanded graduate programs. The purpose of these fellowships as specified by Title IV of the National Defense Education Act of 1958, is to encourage students to prepare for college and university teaching and to strengthen and extend facilities for graduate training of college and university teachers. In order to have programs approved for fellowships, institutions, among other things, have had to commit themselves to the expenditure of additional funds for staff and/or facilities in these programs.

The fellowship is normally a three-year award, the stipend is \$2000 for the first year, \$2200 for the second year, and \$2400 for the third year, plus an additional allowance of \$400 per year for each dependent.

Approved programs throughout the country include most of the main fields of graduate study. Penn State has been awarded nine of these fellowships to begin with the Fall Term of 1961, four in the new program of Biophysics, and five for two previously

(Continued on page four)

Credit unions thrive in colleges

AT some 160 American colleges and universities, credit unions are lively and growing organizations. The University Park Federal Credit Union is one of the newest, so new in fact that many faculty and staff members are unaware of its existence.

What is a credit union, and what is it doing locally?

Dr. Gerald M. Moser, associate professor of Romance languages, and director and one of the founders of the local credit union, explains that a credit union is a cooperative banking method to encourage people to save and to provide a means of borrowing money.

"The credit union movement," he says, "is nearly 50 years old in this country and there have been C. U.s at some college and universities for more than 25 years. Obviously this is not a new way of saving and lending, although people in the east may not be as familiar with it as midwesterners, to whom the cooperative movement in general is strong.

"Universities like Michigan State and Minnesota have credit unions with several thousand members and assets of over three million dollars each. Faculty and staff members at these schools are much more conscious of their credit union than we are here,

although I doubt that they are more serious about saving than we are."

In Pennsylvania, credit unions have been established in recent years at Girard College, Philadelphia, the University of Pennsylvania, Carnegie Tech, and the University of Pittsburgh. The 700-member credit union at Pitt is only four years old and is headed by a former Penn State faculty member, Dr. William S. Tacey.

Nationally, university-based credit unions are found in virtually every state, some serving all faculty and staff members, others only academic or non-academic personnel, and still others having separate organizations for faculty and staff.

Credit unions are either state or Federally chartered, given certain privileges by their charters to accept savings accounts, lend money to members, and make investments within carefully defined limits. They owe

their existence to the fact that membership is restricted to people having a common bond, such as a club, lodge, employment, etc.

"Since credit unions are cooperative in nature," Dr. Moser explains, "it seems wise to restrict membership to people who have some reason to work together. A certain amount of social pressure exists within the group to repay loans quickly to keep the organization in good condition. Repayment experience in college credit unions has been excellent."

Although not necessarily limited in their charters, most credit unions enroll members from a relatively small geographical area. For example, some state universities will have a credit union on the main campus and branches at centers or similar facilities throughout their state, each branch operating as a unit.

Membership in a credit union depends on eligibility as defined in the charter (e.g., employment by the college), payment of a very modest entrance fee (usually 25 cents) and purchase of shares (\$5 each). The shares draw interest, at a rate obviously depending on the earnings of the credit union from lending and investing, but limited to a maximum of six per cent per year.

Only members may borrow from the credit union. Some make a point of restricting their lending to relatively small amounts for short terms, an area of loans which generally calls for high rates of interest among commercial lending organizations. Loans made by credit unions, as regulated by Federal laws, may not draw more than one percent per month interest.

In addition to its savings and loan functions, many credit unions also provide a form of automatic life insurance coverage, frequently in amounts equal to the share holdings.

Individual credit unions can, and do, increase their strength by association with other credit unions, usually in a state-wide organization. In its financial structure, however, each credit union is independent of others, except as it may borrow from or lend to other credit unions individually.

Some idea of the scope of credit unions in universities can be gained from the experience at the University of Illinois which began operations 28 years ago. Today over 5,000 employees of the university at Urbana are members of the credit union, total assets are more than \$2,600,000 and in one year some 2,000 members are granted loans. This C. U. is strong enough that it has made loans to other

(Continued on page four)

President —

(Continued from page one)

ing. This money is needed for salary increases and to cover other rising costs of current operation. An additional two million was requested to admit some 1200 more students and to start some new research projects of importance to the Commonwealth. What we do next year will reflect the State government's reaction to my request. If necessary, the Trustees will raise tuition fees to avoid dropping students in mid-career.

Many of you have asked me, "What can I do to help get this appropriation approved?" My answer is based on the fact that Penn State's appropriation is invested in a public service which directly benefits our students (whether in residence, or in continuing education programs), their families, their ultimate employers, and all of the individuals and groups who profit directly or indirectly from our extensive research programs. As the Governor has pointed out, it is the responsibility of these beneficiaries to tell him and the Legislature that they want more

help from Penn State and are willing to pay their share of the taxes needed to get that help. I have passed this word along to the families of our students, to our alumni, to the agricultural, business and industrial groups who are employing our students or benefitting from our research activities, and to anyone else who has come to us for help. They, and they alone, will have to carry the ball because, in these days of fiscal stringency, appropriations should go only to those agencies and programs which are demonstrably performing a constructive and useful function for the Commonwealth.

You can help assure appropriation of our full request by making certain that Penn State's programs of instruction and research are kept at the highest possible level of scholarly integrity and efficient operation. If each of us performs his or her professional task prudently and well, we shall continue to receive from the Commonwealth the sort of financial support which has kept Penn State growing with the expanding need for its services.

Eric A. Walker

Credit —

(Continued from page three)

credit unions in the annual amount of \$150,000.

Although some colleges and universities perform certain functions for the credit union serving its faculty and staff (such as providing office space and making available payroll-deduction systems), the credit union is typically not a part of the university. At Michigan State, the credit union has been set up in the new office building and at the University of Pittsburgh space has been provided in the Cathedral of Learning.

The local credit union, which is currently limited to faculty and staff members at the University Park campus, was granted its charter in January, 1959, after much preliminary work by Dr. Moser and Dr. Lawrence F. Marriott, associate professor of soil technology. The first savings accounts were opened in February, 1959, at which time there were 18 members, and the first loan was made a month later. Today there are 297 members.

On January 17 the annual meeting was held for election of officers and to conduct other business. Dr. Paul D. Holtzman, associate professor of speech, was elected president for a second term. Other officers reelected were: Sheldon H. Moore, store room man in Waring Dining Hall, vice-president; William C. Arble, instructor in engineering drawing, secretary; and Dr. Marriott, treasurer. Members of the board of directors include Dr. Moser, Louis A. Legory, associate professor of chemistry, and Dr. F. C. Fliegel, assistant professor of agricultural economics and rural sociology.

Senate —

(Continued from page two)

approved programs, two of these in Philosophy and three in Political Science and Government.

As soon as it is received, the list of programs and institutions will be posted on the Graduate School Bulletin Board in Willard Building. SENIORS CONSIDERING GRADUATE STUDY ELSEWHERE and graduate students considering study elsewhere who by the beginning of the Fall term of 1961 have not completed more than one-half year of graduate study creditable toward the degree they will receive upon completing their doctoral programs, SHOULD ACT AT ONCE, and write to institutions having these fellowship programs in the students' major field of interest. Deadlines for filing applications at various institutions will probably be from February 15 to 20, 1961, since institutions have to send their nominations to Washington before March 6. Awards will be announced by the Commissioner of Education on March 10, 1961.

D. H. McKinley announced the January Commencement for January 28, 1961 at 10:30 a.m. Faculty members are to meet under the South Balcony in Recreation Building.

The next meeting of the Senate will be postponed until February 9, 1961; the agenda will be distributed on January 26, 1961. The meeting adjourned at 5:18 p.m.

Robert G. Bernreuter,
Secretary

CALENDAR

Friday, Jan. 27

Fall Semester classes end, 9:50 p.m.

Saturday, Jan. 28

Fall Semester Commencement, 10:30 a.m., Rec Hall.

Monday, Jan. 30

Orientation Week activities begin.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Lawrence Fliskin, department of physics, University of North Carolina, on "Interaction between Dislocations and Point Defects in Silver Chloride."

College of Physical Education and Athletics faculty meeting, 7:00 p.m., Recreation Room, White Building.

Wednesday, Feb. 1

Spring Semester registration begins, continues until Saturday noon, Feb. 4.

News —

(Continued from page one)

sis," co-sponsored by the department of art and architectural history.

Other lectures in the series will be given by Harry Wexler, director of meteorological research, U.S. Weather Bureau, on Thursday, March 23, and by Philip Morrison, professor of physics, Cornell University, on Thursday, May 4.

All lectures will be given at 8 p.m. in Room 121 Sparks.

➤ **ALUMNI:** Contributions to the 1961 Alumni Fund totalled \$48,791 by Jan. 16, representing gifts from 1,147 alumni, friends who have given memorial gifts, and the corporate-matching of some alumni contributions.

➤ **EXAM:** Graduate students who are planning to take the written foreign language reading examination at the next scheduled time, March 6, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows: By making an appointment at room 227 Sparks Building for the German oral tests, which are to be given on February 1, 2, and 3, and at room 300 Sparks Building for the French or Spanish oral tests, given on February 1, 2, and 3.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on March 6 no later than February 1 in room 227 Sparks Building for German, room 247 Sparks Building for English, and room 300 Sparks Building for French and Spanish.

faculty BULLETIN

Vol. 48, No. 26

Jan. 27, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T. J. MAIRS
PATTEE LIBRARY



faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

NEWS IN BRIEF

► **DEADLINE:** Tomorrow (Saturday) is the deadline for reserving tickets for the dinner honoring Dr. Harold E. Dickson as the University's "Teacher of the Year," an event sponsored by the Penn State Alumni Club of Centre County. The dinner will be held Wednesday, Feb. 8 at 6:30 p.m. in the HUB dining room "A".

Reservations may be made by calling Miss Nora Wittman, Locust Lane Apts., AD 7-4148. Cost is \$2.50.

► **FRENCH:** A series of movies produced in French but with English subtitles will be shown during the Spring semester sponsored by the NDEA French Institute.

Each of the films will be shown in Room 209 Home Economics South at 8 p.m. and interested persons are invited. There is no charge.

The first film will be shown Wednesday, Feb. 8 and is titled "Comme un cheveu sur la soupe" (Kindly Kill Me). It is a slapstick comedy of a man who hires three men to kill him and then changes his mind.

The films will be shown every two weeks.

► **ADMITTED:** Thomas E. Sterling, patent counsel for the University and legal assistant to the president, has been admitted to practice before the bar of the Supreme Court of the United States. He is also a member of the bar in New York and the District of Columbia and has engineering degrees from Massachusetts Institute of Technology and the University of Cincinnati. He took pre-law at the University of Rochester and graduated from the George Washington University Law School.

► **ARTISTS:** The Pittsburgh Symphony Orchestra, William Steinberg conducting, will present a concert on Sunday, Feb. 12 at 8 p.m. in Recreation Building.

Tickets for the concert will go on sale to the public on Wednesday, Feb. 8 at the Hetzel Union Building desk.

Featured in the program will be Mozart's Symphony No. 29 in A Major; Paul Hindemith's Symphony, "Mathis der Maler;" Schumann's Symphony No. 3 in E-Flat Major; and Wagner's Prelude to "Die Meistersinger."

► **TROPOSPHERE:** Dr. Charles Hosler, professor of meteorology, will lecture on "Exploring the Troposphere, Use of Radar and Satellites to Investigate the Distribution of Precipitation" Wednesday, Feb. 8 at 8 p.m. in Room 214 Boucke before the mem-

bers of the honorary chemical society, Phi Lambda Upsilon. The public is invited.

► **WEST COAST:** The University of California (Berkeley) Leadership Training Center is anxious to learn whether any social scientists from the east will be on the west coast, in the hope of using those social scientists in its programs.

The Center was established to serve community leaders in northern California. Emphasis of the Center's program is on the interpretation and dissemination of social science research and on the application of the social sciences to community problems.

Faculty members should write to Dr. Martin Tarcher, head, Leadership Training Center, University of California Extension, Berkeley 4, California, if they are interested.

► **PLAYERS:** The Spring Semester schedule of productions by Penn State Players has been revised.

"Summer and Smoke," the Tennessee Williams' play which opened at Center Stage Dec. 2, will continue Feb. 17, 18 and 24, 25.

The Center Stage production of "The Three Sisters," originally scheduled to open in February, will open instead on April 14. "The Pleasure of his Company" will not be presented.

"Rashomon," which was scheduled to play in Schwab Auditorium March 2, 3, and 4 will not be given.

The Spring Semester musical show on May 11, 12, and 13 will be "Paint Your Wagon."

► **AAUP:** Faculty salaries in colleges and universities of Pennsylvania will be the subject of discussion at a meeting of the Penn State chapter of the American Association of University Professors Monday, Feb. 6 at 7:30 p.m. in Room 121 Sparks.

Speaker for the occasion will be Peggy Heim, staff associate at the national headquarters of the AAUP.

► **SENATE:** The University Senate will meet on Thursday, Feb. 9 at 4:15 p.m. in Room 121 Sparks.

► **CHANGE:** The office of the Controller for Commonwealth Campuses has been moved to Room 5, Willard. The telephone number will remain the same, UN 5-2517.

► **LIBRARY:** Pattee Library will be open from 9 a.m. to 12 noon tomorrow (Saturday), closed Sunday, and resume its regular schedule on Monday, Feb. 6 at 7:50 a.m.

Developments REGISTRATION

FOR the 1961 Fall Term, registration procedures will be much as they are now with one major difference: students and advisors will work out a program not simply for one term at a time but for three terms.

Only one *schedule* will be developed at the time of registration but the pre-planning of winter and spring term programs is viewed as an opportunity for doing a more careful long-range planning of the student's education. Also, the procedure is expected to permit more effective planning on the part of the University since there will be time to re-evaluate the course offerings of the winter and spring terms knowing early the number of enrollees in each course. A second time table would be developed based on the information obtained in the fall.

Although electronic scheduling — using computers and other machines to aid in class assignments — is at least a year away, the new procedure has been developed with the future in mind, and little alteration in the 1961 Fall Term procedure will be necessary to adjust to the new methods later.

In designing the system, the Procedures Committee subcommittee headed by Dr. Donald H. Ford recognized that the procedure must be flexible enough to take care of course changes resulting from failing courses or for any other reason. Approximately 19 per cent of all students fail one or more courses during a semester. Not

(Continued on page four)

India's Education Grows

Nalini B. Das Gupta, left, visiting educator from India, explains to Dr. James H. Moyer, head of the department of secondary education, the problems in India's attempts to improve its school system. He is here to learn more about secondary schools in this country.



THE concept of public education which we enjoy in this country is taking a great hold in India, says Nalini B. Das Gupta, visitor to the campus under the International Teacher Development Program of the U. S. Department of Health, Education, and Welfare.

Here to confer with members of the College of Education faculty members and to observe the operation of schools in the vicinity, Das Gupta points out that, at present in India, grades one to four are free and compulsory and the objective is to make all grades through the secondary schools free.

"Much of the development of our courses and curricula are patterned after yours," he says further, "because your government has sent many educational experts to us in past years to help us develop our educational system, and in many other ways have our educators become acquainted with your methods."

"It is one purpose of my visit to learn more about your programs in curriculum design, course content, in-service training programs for teachers, research in social studies teaching, and audio-visual aids."

Now assistant professor of history at the Government (Teachers) Training College, Hooghly, West Bengal, Das Gupta is one of 14 educators from India currently in this country under the International program. In all there are some 550 educators from 65 countries in the U. S. for similar studies.

Prior to coming here, Das Gupta was at the University of Southern Cal-

ifornia for three months to attend courses and seminars given by leading educators. He also visited schools and colleges on the west coast, lived with American families, and took part in a forum, all to help him get a clearer picture of the relation of education to everyday living in this country.

"So far as the education of the child is concerned," he says, "I have learned that the middle class people in your country and mine have the same hopes and ambitions. You are much closer to universal higher education than we are, of course, but some day perhaps we will approach that goal too."

Children of India in the sixth, seventh, and eighth grades study languages (the mother tongue, Hindi, and English), social studies (very much like those in the United States), national and world geography, civics, science and mathematics, music, and home economics or crafts.

At the completion of the eighth grade, the government's guidance service tries to find the youngster's potentialities and inclinations before taking the next education step, which may be to attend either the "higher secondary" school or the "multipurpose" school.

The higher secondary school has a core curriculum and two broad branches — humanities and science — and graduates who go on to higher education will more than likely go to an arts college. On the other hand, those attending the "multipurpose" school obtain a core curriculum plus courses (of more vocational nature) which will better prepare them for

the three-year technical college, of engineering, agriculture, medicine, etc.

Tuition is charged for all grades above the fourth, but the percentage varies because State grants vary. In rural areas, tuition is less than in the cities. Scholarship programs have developed for both the secondary and collegiate level. Both the State and National governments have taxing power to support the educational systems.

In a major city like Calcutta fully 80 per cent of the children attended secondary school but in rural areas probably only 20 per cent. Night schools have developed for many who were forced by circumstances to give up formal education early; most of these programs are vocational.

Das Gupta's primary job is in teacher training in the area of social studies. He is consulted by the Board of Studies in relation to teacher education and on his return (he leaves the campus Feb. 10) will be expected to contribute much in advice and in course planning.

A graduate of Calcutta's Vidyasagar College, he obtained a bachelor of teaching degree from the Teacher Training College at Dacca, and a master of arts degree from Calcutta University. Now 47 years old, he is the father of six children, for whom he has high hopes of getting a thorough education. His eldest son is soon to graduate from college in commerce.

During his stay in State College, Das Gupta is living with Dr. and Mrs. Franklin H. Cook. Within the limitations of his time, he is willing and anxious to tell others about his country.

Items of interest

Patents

PHARO, L. C., and FITZGERALD, C. H., Ordnance Research Lab., a patent for "A System for Measuring Thermal Gradients and the Like," No. 2,960,866.

Books

MAGNER, T. F., Slavic languages, "Russian Tales," selected and edited, designed to serve as a reader in intermediate and advanced classes in Russian, published by William C. Brown, Co.

ROSCOE, E. S., industrial engineering, "Project Economy" published by Richard D. Irwin, Inc., as a text and reference on engineering economy.

WEIDHAAS, E. R., engineering drawing, "Applied Descriptive Geometry Problems," published by the McGraw-Hill Book Co.

Honors and Awards

SLOAT, H. S., agricultural extension, named winner of the Northeast Weed Control Conference annual contest for 1960, receiving a Certificate of Merit and \$100.

Elected and Appointed

ANDREWS, FRANCES M., music education, elected president, Eastern Division, Music Educators National Conference, for a two-year term.

COLWELL, R. M., and NELSON, G. K., accounting, appointed to teaching methods and new development and management accounting committees, respectively, of the American Accounting Association for 1961.

DAVISON, H. M., educational research, elected president of the Research Round Table of the Pennsylvania Educational Research Association, a unit of the PSEA.

DENNIS, L. E., administration, elected chairman of the Joint Council on Educational Television, as representative of the American Council on Education.

HOWELL, B. F., JR., geophysics and geochemistry, re-elected secretary of the Seismology Section, American Geophysical Union for 1961-64.

McCUBBIN, T. K., JR., physics, named a geographical reporter for "Applied Optics," a new journal of the Optical Society of America.

MILLER, E. W., geography, elected vice-president of the Pennsylvania Council of Geography Teachers.

OSBORN, E. F., administration, elected to four-year term on the executive committee of the Society of Sigma Xi.

PALLADINO, N. J., nuclear engineering, appointed member of the Review Committee for the Division of Reactor Development of the Argonne National Laboratory.

SCHMERLING, E. R., electrical engineering, appointed consultant to the Ionospheric Physics Sub-Committee, National Aeronautics and Space Agency's Space Sciences Steering Committee.

WAYNICK, A. H., electrical engineering, appointed chairman, Advisory Committee on Radio, National Bureau of Standards.

— appointed vice-chairman of the editorial board of the Institute of Radio Engineers.

Articles and Papers

At the annual meeting of the American Physical Society, papers by the following members of the physics department faculty: R. G. Winter, Emile Kazes, Douglas Donahue, Peter Signell, T. T. Thwaites, W. W. Pratt, and A. P. Arya.

At the joint annual meeting of the College Art Association and the Society of Architectural Historians at Minneapolis, Jan.

26-28, papers by the following members of the art and architectural history section of the art department: Winston Weisman, on "The Commercial Style"; Robert Alexander, "The Architecture of William F. Small"; and Robert Enggass, on "Andrea dell'Aste: a Rediscovered Artist of Baroque Naples."

BLACKADAR, A. K., meteorology, a paper on "Steady-State Wind Distribution up to 3000 feet in a Neutral Atmosphere," before a session on turbulence of the 41st annual meetings of the American Meteorological Society.

CARPENTER, C. R., DARS, a paper titled, "Boundaries of Learning Theory and Mediators of Learning," at a conference on newer educational media in teacher education at the University of Michigan, sponsored by the American Association of Colleges for Teacher Education.

GOLATZ, H. J., labor education, an article titled "Developing Labor History Courses for High School Teachers," in the Nov.-Dec. issue of AFL-CIO Education News and Views.

GREENLAW, P. S., commerce, a paper on "Marketing Simulations — Problems and Prospects," at the Allied Social Science Association meetings in St. Louis.

HOOGENBOOM, ARI, history, an article in the December issue of "The Historian" titled, "An Analysis of Civil Service Reformers."

HUTTON, H. K., education, articles on "Discipline — the Hardy Perennial," in the High School Clearing House, and "Anglican-Orthodox Relations" in the American Church News.

KOCHANOWSKY, B. J., mining, a paper on "Inclined Drilling" at the 44th annual convention of the National Crushed Stone Association, Jan. 17-20.

MEYER, W. E., and DECAROLIS, J. J., mechanical engineering, a paper titled, "Gas Temperature during Compression in Motored and Fired Diesel Engines," at the meeting of the Society of Automotive Engineers in Detroit.

NAGEL, S. S., political science, an article in the December issue, The American Behavioral Scientist, on "Using Simple Calculations to Predict Judicial Decisions." — an article in the Fall issue, Modern Uses of Logic in Law, on "Weighting Variables in Judicial Prediction."

PYLE, H. G., Continuing Education, in the January issue, Journal of Higher Education, on "The University's Expanding Role in Continuing Education."

THEODORSON, G. A., sociology and anthropology, an article, "Change and Traditionalism of the American Family: Part 1 of a Comparative Study of the Indian and American Family," in the July 1960 issue of the Journal of Social Research (India).

WISLICENUS, G. F., Water Tunnel, a paper on "Hydrodynamics and Propulsion of Submerged Bodies" in the December issue of the American Rocket Society Journal.

YEATON, KELLY, theatre arts, an illustrated article on theatrical makeup techniques in Dramatics, December issue, titled "A Latex Skin for Old-Age."

— a paper on "Aesthetics of the Arena Theatre" at the Speech Association Convention in St. Louis, Dec. 28.

Lectures and Talks

ELIAS, E. M., York Campus, a talk on "Myths in Higher Education" before the York Rotary Club.

GIBSON, S. N., Christian Association, a talk on "Technology and Christian Faith," before the student body of the New Kensington Center.

GOODMAN, LIONEL, chemistry, a talk on theoretical calculations on odd election sys-

tems at the Sanibel Island Conference on Quantum Chemistry, sponsored by the National Science Foundation and the University of Florida.

HARNETT, A. L., JR., physical education, keynote speech at the health institute for teachers of the Blue Mountain Joint School System, sponsored by the Pennsylvania Department of Health.

HEIDE, EUGENE, New Kensington, a talk on "Technical Institute" at the Career Conference at the Springdale (Pa.) High School Jan. 12.

KAUFMAN, J. J., economics, a talk on "The Work Rules as an Issue in Collective Bargaining in the 1960's" at a conference on Manpower Problems of the 1960's sponsored by the New York State School of Industrial Relations, Cornell University, and the National Conference of Christians and Jews.

McKINLEY, D. H., business administration, a talk before the Lewistown Rotary Club, on "A Business Forecast for 1961."

MORSE, J. M., English, a talk before the Bucks County Unitarian Fellowship on "The Religious Background of James Joyce's Works."

MOSS, C. R., industrial engineering, a talk on "Linear Programming and Cost Control," before the Williamsport chapter, National Association of Cost Accountants.

SCHILLING, H. K., Graduate School, a talk at Boston University on "The Meaning of Concepts in Science and Religion."

SWENBERG, L. A., Wilkes Barre, guest speaker at the monthly meeting of the Coughlin High School Key Club, Wilkes Barre.

WILLIAMSON, M. A., engineering and architecture, a talk on "Your Future in Engineering and Science" before a group of selected 9th and 10th grade pupils in Lancaster County schools.

Personnel Matters

Dr. Lauren A. Wright, supervising mining geologist with the California Division of Mines, Los Angeles, Calif., has been named head of the department of geology, effective July 1.

He will succeed Dr. Frank M. Swartz, who will become research professor of paleontology on June 1.

Dr. Wright is a graduate of the University of Southern California, where he also obtained his master of science degree. The doctor of philosophy degree was conferred by the California Institute of Technology. He began his career with the U. S. Geological Survey in 1942. After service in the Air Force, he joined the staff of the California Division of Mines and has been in his present position since 1956.

Dr. Peter H. Given, principal scientist with the British Coal Utilization Research Association, has been named associate professor of fuel technology. A native of Wales, Dr. Given is a graduate of the University of Oxford and obtained master of arts and doctor of philosophy degrees, in chemistry, from Dyson Perrins Laboratory at Oxford. He has been with the Association since 1944. He has also served as

(Continued on page four)

Developments —

(Continued from page one)

all would require a change in their preplanned program, but many would. Data also indicates that in one semester (Fall, 1959) some 3,522 courses were dropped by students and 2,831 were added.

RESEARCH

OF the more than \$10 million dollars spent for research by the University during the 1959-60 fiscal year, nearly 60 per cent came from the Federal Government.

A summary of expenditures for research and sources of income, prepared by the office of Dr. E. F. Osborn, vice-president for research, shows that the research budget for 1959-60 increased by 7.1 per cent over that of the year previous, from \$9.48 million to \$10.15 million.

Most of the increase resulted from added funds from the Federal Government, which rose from \$5.4 million to \$6.04 million. State funds decreased from \$403,000 to \$302,000 and grants from industrial and private sources dropped from \$1.34 to \$1.29 million.

The College of Engineering and Architecture led all colleges in expenditures for research, totalling \$3.27 million, including \$2.34 million for the Ordnance Research Laboratory. The College of Agriculture expended \$3.16 million.

The breakdown of expenditures and income is as follows:

FUNDS EXPENDED

(For fiscal year, in thousands of dollars)

College	1958-59	1959-60
Agriculture	3,170	3,161
Bus. Admin.	112	85
Chem-Phys	1,406	1,773
Education	91	212
Eng-Arch (1)	3,131	3,272
Home Econ	128	152
Liberal Arts	108	149
Mineral Ind.	1,295	1,258
Physical Ed	1	—
Special	37	90
Total	9,479	10,152

SOURCES OF FUNDS

Source	1958-59	1959-60
Federal (1)	5,395	6,042
University	2,337	2,520
State (2)	403	302
Industrial & private	1,344	1,288
Total	9,479	10,152

(1) Includes Ordnance Research Lab.

(2) Only special State appropriations for research and contracts with State departments.

Personnel —

(Continued from page three)

a lecturer and demonstrator in physics and organic chemistry at Chelsea Polytechnic and as part-time lecturer at Dyson Perrins Laboratory.

Other Appointments

Bell, William David, assistant professor of botany, Jan. 1.

Fritz, Rodger L., instructor in electrical engineering, Feb. 1.

Hess, Gerald H., assistant county agent, Northampton County.

Itle, Charles A., assistant county agricultural agent, Jan. 1.

Mazer, Homer F., assistant county agent in Greene County, named to succeed William O. Mitchell, Clearfield County agent, who retired Jan. 31.

McChesney, Roger L., assistant county agent, Huntingdon County.

Sikorski, Robert S., instructor in engineering, Feb. 1.

Siphron, Joseph William, instructor in industrial engineering, Feb. 1.

LEAVES

Taft, Dr. Robert W., professor of chemistry, will be on leave for the Spring Semester to do research and lecture at the California Institute of Technology.

Frankston, Leon, instructor in art education, plans to study at Teachers College, Columbia University, to complete work on his doctor of philosophy degree while on leave from July 1 to June 30, 1962.

Chapman, Dr. Hugh H., Jr., associate professor of Romance languages, will be on leave from Feb. 1 to June 30 to go to Paris to engage in research in problems of French and comparative literature. He will also visit libraries in the United States and Europe.

Fife, Dr. Ilene, associate professor of speech, plans to do research in British public address while in England during a leave from Sept. 1 to Jan. 31, 1962.

Tuttle, Dr. O. Frank, professor of geochemistry, has received a Senior Post-Doctoral National Science Foundation Fellowship and will be on leave from Feb. 1 to July 31 to do research on granitic rocks of the Southwestern U. S., studying at the University of Arizona and Harvard.

CALENDAR

Friday, Feb. 3

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Dr. Peter Bartels, director, microscope laboratory, E. Leitz, Inc., New York, on "New Developments in Microscope Techniques."

Saturday, Feb. 4

Wrestling, vs. Maryland, 8 p.m., Rec Hall.

Sunday, Feb. 5

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Monday, Feb. 6

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. A. H. Brayfield, head of the department of psychology, on "Department Head — A Jet-Age Anachronism."

Meeting of the Penn State Chapter, AAUP, 7:30 p.m., Room 121 Sparks. Peggy Heim, staff associate, national headquarters, AAUP, on "Faculty Salaries in Pennsylvania Colleges and Universities."

Wednesday, Feb. 8

Lecture by Dr. C. L. Hosler, professor of meteorology, 8 p.m., Room 214 Boucke, on "Exploring the Troposphere: Use of Radar and Satellites to Investigate the Distribution of Precipitation." Sponsored by Phi Lambda Upsilon, honorary chemical society.

faculty BULLETIN

Vol. 48, No. 27

Feb. 3, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Lectures

TWO lectures of general interest will be given in two weeks.

On Feb. 21, Dr. James S. Ackerman, professor of art and architecture at Harvard University but currently a visiting fellow at Princeton, will speak on "Abstract Art: The Critic's Nemesis," in the first Graduate School Lecture of the Spring Semester.

Norman Cousins, author and editor of "The Saturday Review," will speak in the University Lecture Series on Friday, Feb. 24, on the subject "Education and Our Future Foreign Policy."

Tickets are required for the Cousins lecture. Priced at \$1.25 for non-students, they may be obtained at the HUB desk on Feb. 22-23 from 9 a.m. to noon and from 1 to 5 p.m.

Dr. Ackerman is a 1941 Yale University graduate, with master of arts and doctor of philosophy degrees from New York University. He was a fellow of the American Academy in Rome, 1949-52; Fulbright Fellow, in 1950; and a member of the faculty of the University of California, 1952-60. He was appointed professor of fine arts at Harvard last year and is currently on Princeton University's Council of the Humanities, aiding in the preparation of an analysis of the humanities in present-day America.

Cousins, who has recently completed trips to the Far East, South Africa, the Middle East, and Europe, is author of such works as "Who Speaks for Man?" and "Modern Man is Obsolete." He is currently a member of the Centennial Committee of the National Education Association.

NEWS IN BRIEF

► **TRANSPARENCIES:** The Audio-Visual Aids Library has the materials available for production of "overhead" transparencies and also projectors for them. Interested faculty members are invited to call Paul Myers, UN 5-6314.

► **INVITATION:** An open house which will give faculty members an opportunity to see the full-scale mock-up of the "Faculty Office of the Future" in McAllister Hall will be held Monday through Wednesday, Feb. 13-15 from 9 a.m. to 5 p.m.

This new concept in faculty offices is being investigated by the Division of Academic Research and Services and the department of physical plant planning and construction as one design to provide a comfortable, pleasant, two-man office within the range of reasonable cost.

Visitors are invited to look and criticize; they may do the latter through a questionnaire which will be given them by the attendant who will also provide information.

The offices will be occupied during the semester by members of the Speech and Slavic Language departments.

► **SCIENCE:** The Summer Institute in Physics and Chemistry will enroll 35 elementary teachers from Pennsylvania and other states in 1961, Dr. H. Seymour Fowler, associate professor of nature and science education who is in charge of the program, points out.

Purpose of the program is to assist in the up-grading of science instruction in the elementary schools.

► **JUDICIAL:** Faculty members interested in civil liberties, judicial review, and reactions of federal and state courts to a judicial decision, are invited to attend a Political Science Seminar Thursday, Feb. 16 in dining room "A" of the HUB at lunchtime. At 12:30, after cafeteria lunch, Kenneth Palmer, National Defense Fellow, will speak on "Sound Trucks and Free Speech: The Supreme Court and *Stare Decisis*."

► **VALENTINE:** The Terrace Room of the Hetzel Union Building will observe Valentine's Day with special menu and decorations Monday, Feb. 13 at the dinner hour.

► **DINNER:** Dr. Stanley R. Hopper, dean of the Graduate School, Drexel University, will be the speaker for a dinner-lecture sponsored by the University Christian Association Saturday, Feb. 18, in the Hetzel Union Building dining room "A," at 6 p.m.

Reservations must be made before Feb. 16 by calling UN 5-7627. Tickets are priced at \$1.50.

Dr. Hopper is the author of "The Crisis of Faith" and has written extensively on religious symbolism, Kierkegaard, Augustine, and the book of Jeremiah.

He will speak on "The Devil of the Stairs."

► **TELEVISION:** Anthropology 1, beginning course in anthropology, will be telecast to the WFBG-TV (Altoona) audience during the Spring Semester, the 10th University course to be so presented since the series began in the Fall Semester of 1957.

Dr. Maurice A. Mook, professor of anthropology, will conduct the course, which treats of prehistoric and present-day primitive peoples, their beliefs, customs, and institutions as contrasted with those of modern man.

The cooperative telecasts with WFBG-TV began in the Fall Semester, 1957, with Music 5, taught by E. C. Wareham, Jr., instructor in music. Since then, the following courses have been taught:

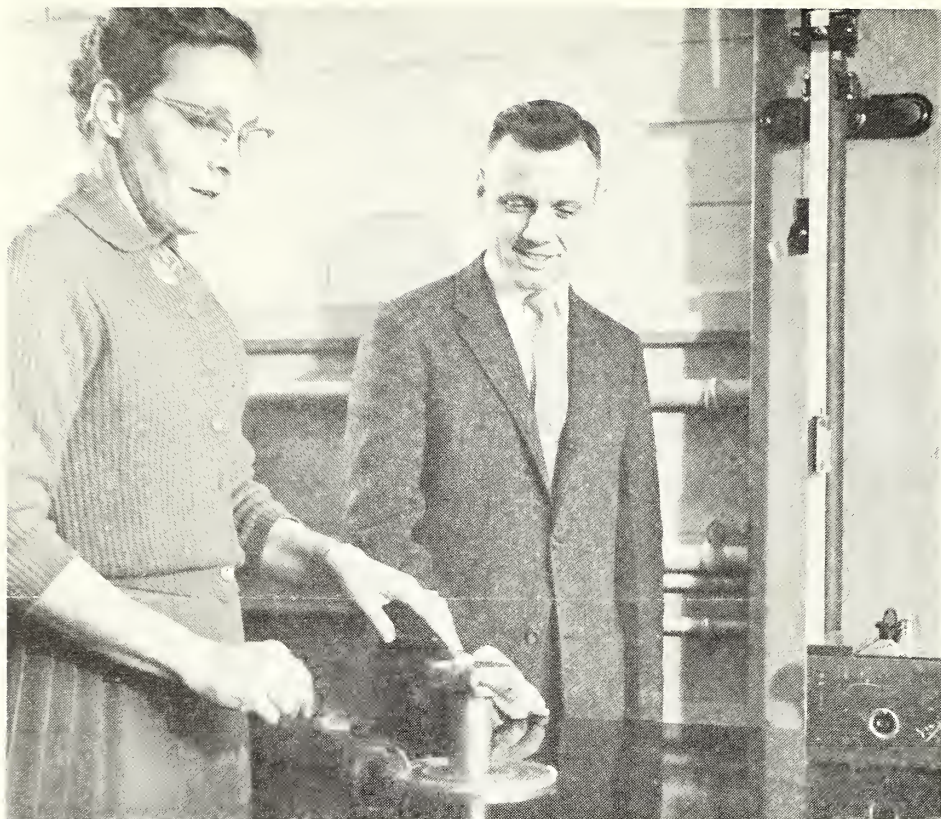
- Spring, '58 — Sociology 1, Dr. W. G. Mather.
- Fall, '58 — Philosophy 2, Aaron Druckman.
- Fall, '58 — Psychology 2, Dr. J. H. Grosslight.
- Fall, '58 — Zoology 25, Dr. T. H. Cheng.
- Spring, '59 — Humanities 2, Dr. H. A. Finch.
- Fall, '59 — History 21, Dr. R. K. Murray.
- Spring, '60 — Personal Finance 8, Bus. Ad. faculty.
- Fall, '60 — Economics 14, Dr. A. H. Reede.

Students in classes at University Park, Altoona Campus, Clarion State College, and Hollidaysburg State Hospital will view the telecasts of Anthropology 1, which will be shown at 9 a.m. Monday, Wednesday, and Friday.

► **MEDICAL:** The next Medical College Admission Test will be given Saturday, May 6 at 8 a.m. Applications, along with a fee of \$15, must be submitted to Medical College Admission Test, 304 E. 45th St., New York 17 no later than April 21. Dr. Leon Kneebone, test supervisor, Room 117 Buckhout, has application blanks and bulletins of information.

► **EXHIBITION:** Prints of etchings, lithographs, woodcuts, serigraphs, paper relief cuts, and other media by two members of the faculty and a number of graduate students will be on exhibit at the B'nai B'rith Hillel

(Continued on page four)



Equipment for experiment in moment of inertia in physics lab was devised by Mrs. Helen Webb and Dr. Clyde Burnett to improve basic course instruction.

Commended by Colleagues

Physicists upgrade lab courses

IN an unprecedented action recently, the faculty of the department of physics made a special point of commending two of their colleagues for the "excellent work they have done in designing experiments and in supervising the overall laboratory instruction program."

The two are Dr. Clyde R. Burnett, associate professor, and Mrs. Helen H. Webb, instructor, both of whom have had charge, for several years, of laboratory instruction in physics courses. These courses are required for physics majors as well as students in engineering, mineral industries, pre-med, and other science curriculums.

Aside from the strong desire to do a better job of teaching, Dr. Burnett and Mrs. Webb began their "program" to improve laboratory instruction in physics with the conviction, held by other teachers as well, that some laboratory instruction as then given could no longer be justified in time, space, or money.

"Some of our colleagues think that it would be just as well to eliminate lab work in Physics 235 and 236 if it has value only in relation to certain manipulative skills and in collecting page on page of data," Dr. Burnett says.

"We have had another problem. Each semester we must handle from

400 to 800 students in 235 or 236. The student has one teacher for the lecture, another for recitation, and a third for laboratory. It is obviously difficult to get personalized instruction under such circumstances.

"The laboratory sections are restricted to 16 students and this phase of the work gives us our best opportunity for individual instruction, but only if we specifically plan for it. This has been one of our objectives."

Traditional physics laboratory instruction, Mrs. Webb explains, has relied on the "cookbook" method of carrying on experimentation, permitting the student little freedom and no reason to display independent thought.

Departing from traditional practice, Dr. Burnett and Mrs. Webb encouraged the students to devise their own experimental procedures, using the laboratory manual as a guide. One device they have used is to allow the

student or a small "team" of students to decide which of several pieces of experimental equipment they want to use to demonstrate a certain principle. Each of the choices is usable; it is simply a question of deciding which the student thinks is the "best" method.

Some of the experiments, Mrs. Webb explains, are patterned after research situations in that the results of several related experiments by different students can be integrated into one picture. This serves as an example of the interdependence of experimental techniques and the desirability of communication between scientists in general.

Another important phase of the program is the 10-minute oral report the student makes to the rest of the class, in which he relates what pertinent data he was able to get to illustrate the principle in question and to demonstrate how the experiment furthered his basic understanding of the area of study. Other students are urged to ask questions, and the "lecturer" learns to defend his ideas and clarify them.

"In Physics 235," says Mrs. Webb, "the material is broken into six major areas of study and we spend two or three weeks in each area. Several experimental methods are germane to the principles we hope to get across. When the student makes his report, the others in the section can learn about the experiments which they hadn't done. Each can then compare critically his data with that of other students."

Because of the need for several different apparatuses to explain each concept, the two physicists have had to stretch their imaginations to develop new experimental equipment. In this respect, they have had help. Via journals and meetings, from the suggestions of physics teachers nationwide who have taken a great interest in the last decade in improving their demonstration and experimental equipment.

In Dr. Burnett's view the success of the system depends considerably on the lab instructor — in most cases graduate assistants — but it is a system which should give added professional encouragement to these beginning teachers by eliminating the rigid laboratory procedure and substituting discussion with other lab instructors and personal contact with senior staff members.

Certain of the values to be expected from the procedures can be appreciated more by students when they experience further scientific laboratory work. Dr. Bennett feels, for example, that the student is now able to understand more clearly the limitations of

equipment and to use independent judgment to evaluate the results of his experiments.

"Our goal is not to develop specific skills and techniques in experimentation, since it is pretty generally agreed that in the basic courses in physics you can't go far enough to do any real good in that respect. But we have a hope that the student will understand the spirit of experimentation and investigation."

Rapid advances in basic sciences require changes in instruction, even in elementary courses, Mrs. Webb says.

"The newer experiments are designed to show the application of the fundamental principles to recent physics," she points out. "For example, today we take much of the nuclear physics instruction as a matter of course, but thirty years ago it wasn't even taught in the elementary courses."

"We believe, too, that we are getting better students. We don't hesitate to use calculus to explain many principles because the students are already prepared for it before they take the basic physics courses."

Within any one group, Dr. Burnett agrees, the better students will get the most out of these new teaching methods and some of the poorer students will need to be directed as much as they ever did. Heretofore, however, there was little or no opportunity for the better student to use his abilities over and above what was required in the laboratory manual.

Several years ago the physics department was forced, by circumstances of limited space and personnel, to reduce the laboratory time in Physics 235. Dr. Barnett and Mrs. Webb agree they could make use of the three-hour lab period, instead of the two hours now available, and especially so because in developing their new methods they found it necessary to reduce the number of experiments the student performs.

"We feel, however, that the amount of time the student spends in collecting data and manipulating equipment is no criterion of the success of the laboratory experience," Dr. Burnett says.

Dr. John A. Sauer, head of the physics department, says that the transition from the three-hour to the two-hour lab period was made more smoothly because of the instructional improvement instituted by Dr. Burnett and Mrs. Webb.

"They fully deserve the commendation of their colleagues," Dr. Sauer says. "Largely through their work, students in the other areas we serve are getting instruction we think will compare favorably with that at any other university."

CALENDAR

Saturday, Feb. 11

Varsity gymnastics, vs. Army, 2:30 p.m.
Varsity basketball, vs. Pittsburgh, 8 p.m.

Sunday, Feb. 12

Protestant Service of Worship, 9 a.m., the Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, assistant University chaplain.

Artists Series program by The Pittsburgh Symphony, directed by William Steinberg, 8 p.m., Recreation Building.

Monday, Feb. 13

Faculty Luncheon Club, 12 noon, HUB dining room "A". Dr. Ernest C. Pollard, distinguished visiting professor of biophysics.

Tuesday, Feb. 14

Economics Faculty Seminar, 12 noon, HUB dining room "A". Dr. Will E. Mason, professor of economics, on "Some Discordant Notes on Monetary Theory."

Valentine Banquet of Phi Delta Kappa (education honorary), 6:30 p.m., HUB dining room. Dr. Henry Finch, professor of philosophy, guest speaker, on "Discourse on Love."

Electrical Engineering Seminar, 4:15 p.m., Room 207 Electrical Engineering. Dr. T. A. B. Senior, Radiation Laboratory, University of Michigan, on "Radar and Thermal Studies of the Physical Constants of the Lunar Surface."

Illustrated lecture by John M. Becher-vaise, Antarctic explorer, on "Men on Ice," 8 p.m., Room 121 Sparks, sponsored by department of geography and the Social Science Research Center.

Construction

Preliminary plans for additions to the Electrical Engineering Building and to Recreation Building were approved by the Board of Trustees recently.

The General State Authority has allocated \$1,070,000 for the Electrical Engineering project, final plans for which are expected by September, after which the GSA will ask for bids.

To be located east of the present E. E. building, the addition will have three floors and will be linked to the present building on the ground floor level by an underground passageway and at the main floor level with a covered walkway. The existing building was constructed in 1938.

The General State Authority has also allocated \$2,862,000 for construction of additions to the men's physical education facilities. Three connected units south of the present Ree Hall are planned in the area of the Alpha Zeta tennis court and the practice green near the Caddy House.

One unit will have classrooms and offices on the top floor, locker rooms and showers on the main floor, and bowling alleys on the ground level.

College of Liberal Arts faculty meeting, 4:15 p.m., Room 121 Sparks.

Meeting of the Penn State chapter, American Society for Metals, 7:15 p.m., Mineral Industries Auditorium. N. J. Palladino, professor of nuclear engineering, on "Materials Problems in Nuclear Reactors."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. Ellis Grove's "De Guello", directed by Michael Forgacs.

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. Film from the series, "Planet Earth." This week, "The Shape of the Earth" and "Force of Gravity."

Wednesday, Feb. 15

Chess Club meeting, 7 p.m., HUB card room.

Psychology Colloquium, 12:30 p.m., dining room "A", HUB. (Cafeteria lunch, 12 noon.) Dr. W. F. Prokasy, Jr., assistant professor of psychology, on "Conditioning and the Inhibition Construct." (Open to the public.)

Thursday, Feb. 16

Political Science Seminar, 12 noon, HUB dining room "A". Kenneth Palmer, fellow in political science, on "Sound Trucks and Free Speech: The Supreme Court and *Stare Decisis*."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Andrew Liehr, Bell Telephone Co., on "Optical Activity in the Rare Earth and Transition Metal Complexes."

Friday, Feb. 17

Graduate Student Association - Faculty Mixer, 9 to 12 p.m., HUB ballroom. Music by Melody Men. Refreshments.

College of Agriculture faculty meeting, 3:15 p.m., HUB assembly room.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Jennings H. Jones, associate professor of chemistry, on "Hydrocarbons Oxidation."

Corridors will connect this unit with the present building.

West of this unit a second unit will provide space for ten squash and handball courts with an instructor's gallery.

The largest unit will include facilities for physical education classes. It will be a gymnasium-type structure with three basketball courts.

The proposed swimming pool addition will be built at some future date, to the west of the gymnasium addition.

• • •

Alterations for Carnegie, Stock Judging Pavilion, and the Ice Rink Pavilion have passed the preliminary planning stage also. Final plans are expected in April.

Carnegie will be converted to a communications center, with facilities for the School of Journalism and the Division of Academic Research and Services.

The Stock Judging Pavilion will be converted to an arena-type theatre.

Enclosing the Ice Rink Pavilion will enhance its usefulness for year-round activities.

Construction of these three alterations is expected to get underway this summer.

PERSONNEL MATTERS

Dr. Sidney Siegel, professor of psychology, has been named research professor of psychology, recognizing the outstanding research he has done. He will continue with both research and teaching in psychology.

Jay E. Coble, 1959 graduate in animal husbandry, has been named assistant county agent in Butler County.

Dr. John A. Fox, associate professor and acting head of the department of aeronautical engineering, has been named associate professor of mechanical engineering at the University of Rochester, effective Sept. 1. He came to Penn State in 1949 as instructor in aeronautical engineering.

Dr. Laura Thompson, visiting scholar at the University of North Carolina, will serve as distinguished visiting professor of anthropology during the Spring Semester. She is the author of "The Fijian Frontier," "Guam and its Peoples" and "The Hopi Way."

FELLOWSHIPS

Faculty members are asked to call to the attention of outstanding advanced graduate students that the deadline for filing applications for one of the twelve Graduate School Fellowships for 1961-62, is March 1. Eleven of these fellowships are open to any outstanding student who has completed at least 30 semester-equivalent credits of graduate work prior to September and is working for the doctorate. One of these fellowships, provided through a gift from the Woodrow Wilson Foundation, is restricted to a terminal-year doctoral student who is definitely planning to enter college or university teaching as his career.

These fellowships provide a tax-free stipend of \$2000 for the fall, winter, and spring terms, plus a grant-in-aid to cover all tuition for the three terms. They are awarded in any area, although some preference is given to areas where other types of aid are less prevalent, such as the humanities and social sciences, still keeping in mind the criterion of outstanding scholarship.

Application forms and further information may be obtained at the Graduate School Office, 105 Willard Building.

News —

(Continued from page one)

Foundation beginning Sunday, Feb. 19 from 2:30 to 5:30 p.m. The exhibit will continue until Sunday, March 12, open daily from 9:30 a.m. to 10 p.m.

John Cataldo, associate professor of art education, and **Bruce Shobaken**, instructor in art, are among those represented. Prints are available for purchase.

► **ENROLLMENT**: Final enrollment figures for the Spring Semester will be available in a couple of weeks, but preliminary statistics indicate the enrollment at University Park will be somewhat higher than a year ago.

At the end of registration last Saturday, 14,643 had enrolled at U. P. and 2,984 at other campuses. Because of inclement weather, registration on Saturday was under that expected. Nevertheless, U. P. enrollment was 818 above that of a year ago.

► **FOOD**: The Maple Room and Cafeteria in the Home Economics Building will resume luncheon service Tuesday, Feb. 14, and dinner service Wednesday, Feb. 15. Luncheon is served from 11:50 a.m. to 12:30 p.m. Tuesday through Friday. Dinner is served in the Maple Room on Wednesdays and Thursdays only, from 5:30 to 6:30 p.m.

► **ICE**: Antarctic explorer **John M. Bechervaise** will lecture on "Men on Ice," describing research and exploration on the Antarctic continent, Tuesday, Feb. 14 at 8 p.m. in Room 121 Sparks. He will illustrate with colored slides.

Bechervaise has spent four of the past seven years in the Antarctic as leader of three Australian expeditions.

He is co-author of the book "Anare" and is a fellow of the Royal Geographical Society and the Royal Society of Artists.

The department of geography and the Social Science Research Center are co-sponsors.

► **MONITOR**: Penn State will be featured on the National Broadcasting Co. radio program "Monitor" this evening (Friday) and Saturday and Sunday. In a series of one-minute "spots" of the "Miss Monitor" portion of the week-end program, heard locally over WMAJ, the University will be characterized according to the following schedule: Friday, between 8 and 8:30 p.m.; Saturday, between 10 and 10:30, 2:30 and 3:30, 5:30 and 6:00, 8:30 and 9:00, and 10:30 and 11:00 p.m.; on Sunday, between 4:00 and 4:30 and 8:30 and 9:00 p.m.

► **FISCAL**: Because the Commonwealth has changed its fiscal year to end June 30, the University has elected to continue to use the June 30 date also. A plan to end the year as of May 31 was to be initiated this year.

► **ARTISTS**: The Pittsburgh Symphony Orchestra will be the next presentation of the Artists Series committee on Sunday, Feb. 12 at 8 p.m. in Recreation Building. **William Steinberg** conducts.

The program will consist of symphonies by Mozart, Hindemith, and Schumann, and Wagner's prelude to "Die Meistersinger."

Saturday, Feb. 18, at 8:30 p.m. in Schwab Auditorium, the Merce Cunningham Dance Company will feature **David Tudor** and **John Cage**. Tickets for this performance will be on sale for non-students Feb. 15-17 at the HUB desk.

faculty BULLETIN

Vol. 48, No. 28

Feb. 10, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University



Dr. E. W. Mueller

Prizewinner

Dr. Erwin W. Mueller, research professor of physics, has been announced as the winner of the annual apparatus competition sponsored by the American Association of Physics Teachers.

The award of \$500 was made for his entry of a simplified version of his own field ion microscope, most powerful microscope in the world, for use in undergraduate physics laboratories in colleges and universities. The equipment makes it possible to see the atomic structure of crystal specimens, heretofore visible only with the complex microscope, which only a few institutions have.

Dr. Mueller's simplified version of the microscope is operated with liquid nitrogen instead of the less abundant and more dangerous hydrogen. Other

(Continued on page three)

NEWS IN BRIEF

➤ **PHILOSOPHY:** Dr. Mario Bunge, visiting professor of philosophy at the University of Pennsylvania, will address the Philosophy Colloquium Thursday, Feb. 23 at 4:15 p.m. in Room 12 Sparks. He will speak on "The Myth of Simplicity."

An Argentinian, Dr. Bunge is professor of the philosophy of science at the University of Buenos Aires. His books, in English and Spanish, include "Causality," "Ethics in Science," and "The State of the Universe."

➤ **TALK:** President Eric A. Walker will address the members of the senior class of the University Wednesday, Feb. 22, at 7 p.m. in Schwab Auditorium.

➤ **THEOLOGY:** Dr. Roger Hazleton, dean of the Graduate School of Theology, will speak on the topic, "Theology in Conversation with other Academic Disciplines" at the University Christian Association Forum Saturday, Feb. 25 at 8 p.m. in the Chapel Lounge.

Dr. Hazleton is the author of "On Proving God" and five other books on religion, theology, and ethics.

Faculty members and graduate students are invited to attend the Forum.

➤ **MEETING:** The meeting of the faculty of the College of Agriculture today (Friday) at 3:15 p.m. in the HUB assembly room is a special meeting which will include discussions of programmed learning and teaching machines. Leslie P. Greenhill and other members of the staff of the Division of Academic Research and Services, will speak.

➤ **ORGAN:** George E. Ceiga, University organist, will present a recital Sunday, Feb. 19 at 4 p.m. in Schwab Auditorium. The program will include works by Giralamo Frescobaldi, Bach, Johann L. Krebs, Paul de Maleingreau, Joseph Bonnet, Leo Sowerby, and Handel.

CALENDAR

The 1961 Fall Term will begin one week earlier than previously announced. Orientation Week, which was originally scheduled to begin Sunday, Sept. 24, will begin instead on Sunday, Sept. 17, and conclude Saturday, Sept. 23.

Fall Term registration will take place Sept. 20 (Wednesday) to Sept. 23 (Saturday) at noon. Classes will begin Monday, Sept. 25, at 8 a.m. and conclude Thursday, Dec. 7 at 9:55 p.m.

➤ **EDUCATION:** Norman Cousins, noted author and editor of The Saturday Review, will speak on "Education and our Future Foreign Policy," in the University Lecture Series, Friday, Feb. 24 at 8:30 p.m. in Schway Auditorium.

➤ **FRENCH:** "Les casse-pieds" (The Spice of Life) is the title of the French film which will be shown Wednesday, Feb. 22 at 8 p.m. in Room 209 Home Economics South, sponsored by the NDEA French Institute.

The faculty is invited to see the film, which includes Noel-Noel discoursing on social pets and bores found in everyday life. The film has English subtitles.

➤ **MEAT:** Beginning today (Friday) the University meat shop will be open each Friday from 1 to 5 p.m. The meat shop is located in the Meats Laboratory, east of Beaver Stadium.

➤ **UCA LECTURE:** Dr. Stanley R. Hopper, dean of the Graduate School, Drew University, will speak on "The Devil of the Stairs" at a dinner-lecture sponsored by the University Christian Association tomorrow (Saturday) at 6 p.m. in the HUB dining room "A."

➤ **ART:** "Abstract Art: The Critic's Nemesis," will be the subject of the lecture by Dr. James S. Ackerman, professor of art and architecture, Harvard University, in the Graduate School Lecture Series, Tuesday, Feb. 21, at 8 p.m. in Room 121 Sparks.

➤ **DANCE:** Merce Cunningham and Dance Company, which features David Tudor and John Cage as pianists, will present the next program in the Artists Series tomorrow night (Saturday) at 8:30 p.m. in Schwab Auditorium.

Cunningham is one of the leading figures in the modern dance field and is considered a daring experimenter. The dances are not intended to tell stories or be related to psychological problems but are simply activity of movement, sound and light.

The dance company will include four female and one other male dancer. The program will include "Suite for Five," "Crises" and "Antic Meet."

On March 19, Errol Garner, jazz pianist, will be featured in the Artists Series.

➤ **WANTED:** Lambda Chapter of Phi Beta Kappa invites all faculty members who are members of Phi Beta Kappa but are not yet on the rolls of the Penn State chapter to send their

(Continued on page four)

Teaching machine saves time

STAR, the latest addition to the "teaching machine" field, was born in the imagination of Arthur M. Wellington, professor of counseling education, to satisfy the need for a relatively inexpensive time-saver.

"There are several reasons for developing this classroom equipment," Wellington says, "but time-saving for both the teacher and for the pupil is fundamental.

"Two years ago I made a study for a book I wrote and learned that about 20 per cent of a public school teacher's time was spent on clerical work — grading exams, etc."

Anything which would be done to reduce this time-wasting, he reasoned, would be more than welcomed by educators, especially the teachers, who would much rather use those extra hours for something productive.

As for the student, the time-saving comes in via the learning process. With STAR, there is less lost motion between grading of an examination and using it as a teaching device.

Wellington's invention, for which a patent has been applied, will be marketed by HRB-Singer, Inc., of State College. It involves both electronic and mechanical parts and yet is so relatively simple that it will cost \$50 or less, depending on the model.

In the classroom, each pupil would receive a STAR (derived from Score, Teach, And Record) which constitutes his answer pad for a multiple choice, true-false, or paired comparison examination. Using a special probe, he punctures a sheet of paper in the circle representing the answer he thinks is correct. If he is right, a light flashes and the number on the "correct" dial increases by one. If he is wrong, the light does not flash but the number on the "incorrect" dial increases by one, and the student tries another answer. He knows the right answer to each item and learns by reinforcement before he attempts the next item.

Teachers who want a permanent record of the examination results, to study wherein more emphasis is needed in her teaching, may have it simply by analyzing responses on the answer sheet.

Compared to other "teaching machines" developed for similar purposes, STAR's primary advantage is that the pupil knows instantly whether he has answered the question correctly or not by the flashing of the light and can direct his study accordingly.



A. M. Wellington

From the teacher's standpoint, re-teaching can be undertaken almost immediately.

No programming is needed with STAR, since it is a teaching-through-testing device, usable with any material. It could, for example, be used with examinations for entrance to the University as well as for tests in any course utilizing objective tests on content. A classroom could have students using STARS for study of astronomy one period and the next period for studying zoology, without any changes being made in the machine.

Wellington's interest in teaching machines began 25 years ago, when he was a graduate at Ohio State, under Dr. S. L. Pressey, who is credited with being a pioneer in the teaching machine field and who was granted the first patent for such a machine.

"In our experiments," Wellington recalls, "we used old slot machines and modified them so that the first of the three drums contained the question and the other two drums the answers. If you gave the correct answers, a life saver came out of the coin slot.

"Those were depression days, so we used the life savers over and over. One of my chores was to wash the mints!"

Since those days Wellington has had a continuing interest in teaching machines and the new device is only one of a number which he has considered.

In addition to its use in the usual classroom situation, STAR appears to have application in industrial and military applications for selection, training, and evaluation of personnel.

Items of interest

Arts

ZORETICH, G. S., art, and PAPPAS, GEORGE, art and art education, paintings "In Transformation" and "Rock Harbor, Orleans," respectively, in the 27th Biennial Exhibition at the Corcoran Gallery of Art, Washington, D. C.

VAN DOMMELEN, D. B., housing and home art, exhibiting wall hangings at the Michigan Artists-Craftsman Show at the Detroit Institute of Art.

Elected and Appointed

ARMINGTON, R. E., electrical engineering, appointed a member of the Electrostatic Process Sub-Committee of the American Institute of Electrical Engineers National Committee on Electronics.

BLACKADAR, A. K., meteorology, appointed editor of the American Meteorological Society's publication, "Meteorological Monographs."

FENSKE, M. R., chemical engineering, appointed member of the Review Committee of the Division of Chemical Engineering, Argonne National Laboratory.

FERRARO, A. J., electrical engineering, elected a member of Commission III of the International Scientific Radio Union.

HOWELL, B. F., JR., geophysics and geochemistry, reelected director of the Seismological Society of America for 1961-62.

MUELLER, E. W., physics, elected vice-chairman of the executive committee of the Division of Electron Physics, American Physical Society.

PENDERED, N. C., industrial arts education, re-elected to the Board of Directors of the Pennsylvania Industrial Arts Association.

WOODRING, C. E., JR., real estate, appointed director of education for the State Real Estate Association.

ZELKO, H. P., speech, appointed chairman of the Committee on Higher and Adult Education of the Speech Association of the Eastern States.

Articles and Papers

BROWN, I. V., American history, an article, "Pennsylvania and the Rights of the Negro, 1865-1887," in the January issue of Pennsylvania History.

HAWKINS, N. G., sociology, "Note on Statistical Usage" in the American Medical Association Journal, Jan. 21 issue.

THEODORSON, G. A., sociology and anthropology, a paper, "The Ethnic Minorities of Burma," given before the First International Conference of Southeast Asia Historians at Singapore.

WILLOWER, D. J., education, a paper titled "Knowledge, Behavior, and the Case Method," published in the book, "A Forward Look — The Preparation of School Administrators, 1970," a publication of the University of Oregon.

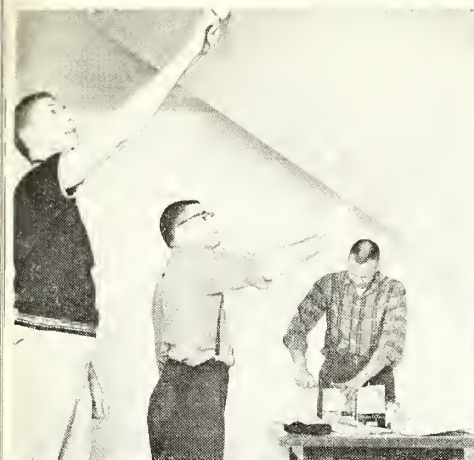
Lectures and Talks

ANDREWS, FRANCES M., music education, conducted a music workshop for children at the Music Educators National Conference, Eastern Division, in Washington, D. C.

FLETCHER, H. D., public safety, named adviser to the executive committee of the Pennsylvania Interdepartment Safety Committee.

HOUSER, W. G., Ordnance Lab, talk at the monthly section meeting of the Institute of Radio Engineers Feb. 21 at Emporium on "Electronic Problems in Underwater Acoustic Measurements."

MARIN, JOSEPH, engineering mechanics, a lecture on fatigue in metals to engineers and scientists at the International Business Machines Corp., Endicott, N. Y.



Graduate students in Counseling in Education have initiated a program of improving the quarters in Mac Hall. At left, Dr. Hudson, center, talks over project with graduate students in conference room furnished by students.

With own money, too

Grad students in fixup program

LIKE most academic areas, Counseling in Education has a limited budget for physical improvement of its facilities — but it has one resource in abundance which has stood it in good stead: the “togetherness” and enterprise of its graduate students.

Not satisfied with the austerity and inconvenience of its new quarters on the top floor of McAllister Hall, one of the oldest buildings at University Park, these graduate students have undertaken a physical improvement program on their own which bids fair to transform the drab quarters into an academic wonderland.

The project is all the more remarkable in that the students are doing the work themselves *and* paying for the materials — paint, plaster, furniture, lights, shelving, drapes, etc.

The story really began a decade ago, when the program got underway with the arrival on campus of Arthur F. Wellington, now professor of counseling in education. In those days there was only a small station wagon full of students (a Crossley wagon at that) and “togetherness” was unavoidable. The station wagon was used to transport the students to Titan Metal Co. for job analysis studies or to Phil-

ipsburg High School, and in those circumstances unity was easy.

For a while Counseling in Education was housed in Waring Hall, where the newness and formality of the quarters had a dampening effect on spirit. When quarters were transferred to Pollock Circle in 1954 a fix-up program was in order and the students did their share of painting to make the old military barracks seem hospitable.

The move to Mac Hall was accomplished last year. When the faculty and students moved in, it was with the understanding that no money was available for renovation and that their stay might be short, in view of the fact that plans have been developed for a complete reconversion of the building into academic office space. They were happy to get the room.

Last summer, the enrollment of graduate students swelled by the influx of teachers, the renovation work began with the development of a “conference” room, which is really an interview studio. In one of the smaller rooms, (ideal in size for interviews between a counselor and counselec) the plaster was repaired and the walls painted. For furnishings, two “cap-

tains” chairs, a low table, a modern lamp, and drapes were purchased from funds of the fraternity, Iota Alpha Delta.

Iota Alpha Delta (which can mean “It All Depends” — rather symbolic for counselors in general), is a professional fraternity of graduate students in Counseling in Education. The initiation fee is \$5 and there are no dues. The basic purpose of the fraternity is to provide an organization to promote fellowship and facilitate the discussion of professional matters of interest. Locally, it has been a rallying point for the graduate students (seniors are also eligible).

The current work of the fraternity is directed toward improving the television room (where counselecs and counselor are “on camera” for the benefit of students located in other rooms) and toward development of a recorder room (formerly a linen closet, but soon to house a battery of tape recorders for playback of interview tapes). The students are also painting some of the offices. In the past they have renovated old furniture (the legs of one table and the top of another combined well to make an out-sized coffee table for the lounge).

The faculty of Counseling in Education, headed by Dr. George R. Hudson, takes no particular credit for the unusual demonstration of spirit by the graduate students. The “togetherness,” faculty members insist, simply resulted from the common purpose of study. The fact that the department has grown rapidly and has continually burst its facilities at the seams probably has been a factor.

“We have always had to ‘scrounge’ to survive,” says Dr. Hudson. “Maybe it’s good training for the students.”

Prizewinner —

(Continued from page one)

modifications include a new pumping method which eliminates the ultra-high vacuum system and also a new method of introducing the helium gas which provides the ions which create the image on the microscope screen.

Although as powerful as his original version, Dr. Mueller’s newer model does not have as sharp a definition and lacks some of the versatility of his research tool.

More than 60 scientists submitted entries in the Association’s annual competition.

In 1955, Dr. Mueller was the first man to see the regular array of atoms in a crystal lattice. He had worked toward that goal for 19 years, from the time he was a physicist at the research laboratories of Siemens and Halske, Berlin, Germany, when he developed an electron microscope.

CALENDAR

Friday, Feb. 17

Graduate Student Association - Faculty Mixer, 9 to 12 p.m., HUB ballroom. Music by Melody Men. Refreshments.

College of Agriculture faculty meeting, 3:15 p.m., HUB assembly room.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Jennings H. Jones, associate professor of chemistry, on "Hydrocarbons Oxidation."

Saturday, Feb. 18

Dinner-lecture, sponsored by the University Christian Association, 6 p.m., HUB dining room "A." Dr. Stanley R. Hopper, Drew University, will speak on "The Devil of the Stairs."

Center Stage production of "Summer and Smoke," 8 p.m.

Varsity gymnastics, versus Pittsburgh, 8 p.m. Freshman triangular meet, Pittsburgh and Slippery Rock, 6:30 p.m.

Artists Series, 8:30 p.m., Schwab Auditorium. Merce Cunningham and Dance Company.

Sunday, Feb. 19

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Stanley R. Hopper, dean of the Graduate School, Drew University.

Organ recital by University organist George Ceiga, 4 p.m. Schwab Auditorium.

Monday, Feb. 20

Faculty Luncheon Club, 12 noon, HUB dining room "A." Dr. E. F. Osborn, vice-president for research, on "Trends in Research at Penn State."

Meeting of faculty of College of Education, 4:15 p.m., HUB assembly room.

Color Slide Club meeting, 7:30 p.m., Mineral Industries Auditorium. Nora E. Wittman on "Views from Australia and New Zealand."

Tuesday, Feb. 21

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. James S. Ackerman, professor of art and architecture, Harvard University, on "Abstract Art: The Critics' Nemesis," co-sponsored by the department of art and architectural history.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "The Group," by James T. Miller, directed by graduate assistant Roxanne Walton.

Varsity basketball, versus West Virginia, 8 p.m., Rec. Hall.

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. Films in series, "Planet Earth." This week, "Secret of the Ice;" "Our Nearest Star;" and "The Flaming Sky."

Political Science Colloquium, 12:30 p.m., HUB dining room "A" (after cafeteria-style lunch). Dr. R. Wallace Brewster, on "The New Tribunaux Administratifs of Frances: A Cast Study in Stability Through Change."

AYSI meeting, 4:15 p.m., Room 111 Boucke. Dr. C. Russell Phelps, program director of the Academic Year Institute of the National Science Foundation, on "Science Education Programs of the National Science Foundation." Interested faculty and graduate students invited.

Wednesday, Feb. 22

Chess Club meeting, 7 p.m., HUB card room.

Showing of French Film, "Les casse-pieds" (The Spice of Life), 8 p.m., Room 209 Home Economics South, sponsored by the NDEA French Institute.

Talk by President Eric A. Walker to Senior Class of the University, Schwab Auditorium, 7 p.m.

Thursday, Feb. 23

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. John G. Aston on "The System Hydrogen-Palladium."

Meeting of the faculty of the College of Home Economics, 4:15 p.m., Room 209 Home Economics South.

Philosophy Colloquium, 4:15 p.m., Room 12 Sparks. Dr. Mario Bunge, visiting professor of philosophy, University of Pennsylvania, on "The Myth of Simplicity."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Kenneth Houpp, on "A Day with a Technical Editor."

Friday, Feb. 24

University Lecture Series, 8:30 p.m., Schwab Auditorium. Norman Cousins, editor, The Saturday Review, on "Education and Our Future Foreign Policy."

News —

(Continued from page one)

names and addresses to the secretary D. C. Whitmarsh, 231 Ordnance Lab.

► **AYSI:** Dr. C. Russell Phelps, program director, Academic Year Science Institutes, The National Science Foundation, will speak to the AYSI attendees and interested faculty and students Tuesday, Feb. 21, at 4:15 p.m. in Room 111 Boucke.

► **FOUR YEAR:** The Greater Hazleton Chamber of Commerce has proposed that present two-year colleges be expanded into fully-accredited four-year institutions as an economic-educational aid to depressed areas in the Commonwealth.

The proposal noted Penn State's quarter-century program at various centers such as Hazleton and Pottsville and added that from this start it would be relatively easy "to build four-year colleges of fine reputation" which would provide relatively inexpensive college educations by reducing to a minimum the single largest expense of a college education, namely room and board.

► **GRAPHIC:** The annual show of the American Institute of Graphic Arts will continue in the HUB gallery until Feb. 28.

► **INSPECTION:** Final inspection of alterations and additions to Engineering Units "D" and "E" were conducted last week by General State Authority, and State Department of Property and Supplies representatives. The alterations were part of \$643,800 GSA program which included changes in Units "A", "B", and "C" and construction of a metal building for temporary classroom use. The first three units are already in use and units D and E will be used in the near future.

faculty BULLETIN

Vol. 48, No. 29

Feb. 17, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Saturday, Feb. 25

University Christian Association Forum, 8 p.m., Chapel Lounge. Dr. Roger Hazelton, dean of the Graduate School of Theology, Oberlin College, on "Theology in Conversation with Other Academic Disciplines."

Center Stage production of "Summer and Smoke," 8 p.m.

Wrestling, versus Pittsburgh, 8 p.m.

Graduate Student Association Square Dance, 8:30 p.m. to midnight, HUB ballroom. Faculty members and graduate students invited.

Sunday, Feb. 26

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger Hazelton, dean of the Graduate School of Theology, Oberlin College.

Monday, Feb. 27

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Paul Holtzman, associate professor of speech, on "A Savings and Loan Association of our Own."

Tuesday, Feb. 28

Economics Faculty Seminar, 12 noon, HUB dining room "A." Dr. J. J. Kaufmann, professor of economics, on "Railway Working Rules: An Environmental Interpretation."

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. Film Series, "Planet Earth." This week: "Magnetic Force" and "Radio Waves."

Academic Year Science Institute Colloquium, 4:15 p.m., Room 111 Boucke. Dr. Ralph Ascah, associate professor of chemistry, on "Preparation for the Study of Medicine — How Science Teachers Can Help."

Basketball, versus Temple, 8 p.m.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "I Drive a Car," by David Kitt, directed by Barbara Lemmon.

(Continued on page four)

NEWS IN BRIEF

► **MATEER:** The proposed program of productions at Mateer Playhouse for the 1961 season has been announced by Dr. Walter H. Walters, head of the department of theatre arts.

Seven plays will be produced during the ten-week season, three plays to run for two weeks each. Dr. Walters explains that an attempt has been made to balance the season with various types of comedies, dramas, and a mystery or suspense play. Brochures will be available in March, and a postal card to the department will assure the sender a copy of the brochure.

The complete program is as follows, with the starting date of each play indicated:

June 19 — Ray Lawler's "Summer of the 17th Doll."

June 26 — "Life with Father," by Howard Lindsay and Russel Crouse, (two weeks).

July 10 — "Epitaph for George Dillon," by John Osborne and Anthony Creighton.

July 17 — "The Deadly Game," by James Yaffe, from the novel by Friederich Duerrenmatt, (two weeks).

July 31 — "The Tunnel of Love" by Joseph Fields and Peter de Vries (or other farce-comedy of this type).

Aug. 7 — Arthur Miller's "A View from the Bridge," (two weeks).

Aug. 21 — Noel Coward's "Fallen Angels."

► **LANGUAGE:** Regular written Foreign Language Examinations will be given Monday, March 6, at 7 p.m.; in German, Room 111 Boucke, in French and Spanish, Room 112 Buckhout, and in English, Room 205 Sparks. The conflict examination in German will be given Tuesday, March 7, at 7 p.m. in Room 12 Sparks.

► **COUSINS:** Norman Cousins, editor of The Saturday Review, will speak on "Education and our Future Foreign Policy" this evening (Friday) at 8:30 p.m. in Schwab Auditorium in the University Lecture Series.

► **MUSIC:** The University Men's Glee Club and Women's Chorus will combine to present a concert on Sunday, March 5 at 3 p.m. in Schwab Auditorium. The program will include numbers by each group and by the two groups combined, by the Varsity Quartet, and a solo by Carol Rights, sophomore in Liberal Arts.

► **SENATE:** The University Senate will meet Thursday, Mar. 2 at 4:15 p.m. in Room 121 Sparks.

► **FILMS:** A series of six 30-minute films, titled "Talking Sense", is being shown currently to students in Engineering 3 class in Schwab Auditorium Tuesday afternoon at 4:30 p.m. Dr. M. A. Williamson, dean of the College of Engineering and Architecture, invites faculty and other students to see these films. They may occupy balcony or other unassigned seats.

Dr. Irving J. Lee, former professor of public speaking, Northwestern University, and author of a number of books on speaking and communication, prepared the films. The series is designed to promote more effective communication by analyzing and illustrating factors which lead to misunderstanding and trouble when people talk together.

The first film was shown this week.

► **FORUM:** Dr. Roger Hazelton, dean of the Graduate School of Theology, Oberlin College, will speak on "Theology in Conversation with other Academic Disciplines" at a University Christian Association Forum tomorrow (Saturday) at 8 p.m. in the Chapel Lounge.

Dr. Hazelton is the author of "On Proving God" and five other books on philosophy of religion, theology, and ethics.

The speaker for the forum of Saturday, March 4, will be Dr. Paul Peachey, of the Institute of Mennonite Studies, speaking on "Faith and Revolution."

► **HORSEMANSHIP:** Gordon Wright, author and lecturer, will speak and show films on the U. S. equestrian team, the Olympic Games, and horsemanship generally Sunday, March 5 at 8 p.m. in the Home Economics Auditorium, sponsored by the Penn State Riding Club. Donations are asked in the following amounts: 75¢ for adults, 50¢ for students with matriculation cards, and 25¢ for children. Proceeds will go to charity.

► **PRINTER:** Pattee Library has acquired a Thermo-Fax reader-printer for microfilm. Paper prints from microfilm can be supplied at 10 cents each on request at the Periodicals Desk, Room 205 Pattee Library.

► **ANTENNA:** Dr. John Ruze, director, Radiation Engineering Laboratory, Maynard, Mass., will speak on "Tolerance Effects in Antennas" at the Electrical Engineering Seminar Tuesday, Feb. 28 at 4:15 p.m. in Room 207 Electrical Engineering Building.

(Continued on page four)

SENATE MINUTES

Minutes of the Meeting of February 9, 1961

The University Senate met at 4:15 p.m. on Thursday, February 9, 1961 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the January 5, 1961 meeting were approved as printed in the Faculty Bulletins for January 20 and 27, 1961. One hundred seventy-seven senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (R. C. Blaney), P. W. Fletcher (W. E. White), J. A. Fox (R. D. Mathieu), M. S. Gjesdahl (E. E. Ambrosius), L. P. Guest (F. L. Whaley), A. W. Hutchison (R. P. Seward), E. B. McCoy (E. A. Gross), R. E. McDermott (H. H. Chisman), R. C. Miller (T. L. Merritt), E. R. Queer (F. A. Joy), F. J. Simes (L. S. Austin), and T. S. Spicer (H. L. Lovell).

New Senator

G. E. Rindone has been elected to replace C. R. Kinney in the College of Mineral Industries for the term 1960-1962.

In the College of Agriculture, C. O. Claggett will serve as acting head of the Department of Agricultural and Biological Chemistry from February 1 to April 30, 1961 while H. O. Triebold is on leave.

A communication was received from A. W. Hutchison, Chairman of the Senate Committee on Continuing Education Policy, containing statements bearing on the recommendations as passed by the Senate on June 2, 1960 that

all academic departments, divisions, schools, and colleges be charged specifically with responsibility for providing a variety of training experiences in Continuing Education in their areas of competence.

These statements were as follows:

The recommendation that "all academic departments, divisions, schools and colleges be charged specifically with responsibility for providing a variety of training experiences in Continuing Education in their areas of competence" was framed with the thought that

- a) *the heads of academic departments would seek new staff members who were interested in continuing education and would encourage present members of the staff at all levels as well as graduate students to participate in this area of teaching and research.*
- b) *suitable training experience under supervision would be of great benefit to inexperienced persons interested in working in the general area of continuing education.*
- c) *many suitable opportunities arise which academic units could use to advantage in achieving the above objective.*

Examples of such opportunities follow:

- a) *A student might serve as an assistant to a staff member in the presentation of course material in the field or in short courses, conferences, or seminars on the campus. He might serve as a reader of correspondence lessons, or, if sufficiently experienced, he might conduct off-campus classes or participate in informal programs with minimum supervision.*

- b) *Selected students could profit from assisting a staff member in developing a new course for presentation by correspondence or in off-campus classes. Such students could also profit from visiting planning sessions and evaluation meetings.*
- c) *An internship or, in some cases, a graduate assistantship might profitably be set up in a county agent's office, in an administrative office of continuing education or of agricultural and home economics extension.*
- d) *In some areas, research by graduate students and faculty might be profitably done in some phase of adult education.*

A recommendation was received from the Senate Committee on Rules stating that the amendment to Article IV, Section 1 of the By-Laws be further amended to change the day of the meeting of the Senate to the first Tuesday of each month. This recommendation, which was distributed with the agenda as Appendix "D," is on file in the office of the secretary.

The secretary read the following report of the Senate Committee on Student Affairs which had been distributed with the agenda as Appendix "E:"

At the meeting of May 7, 1959, the Committee on Student Affairs presented for the information of the Senate a codification of the "Techniques Used in Cases of Social Offenses and Acts of Academic Dishonesty by Undergraduate Students at The Pennsylvania State University."

Under headings 7, 8, 8a, 8b, 8c, 9, and 12 of that codification, part of the technique used is to place on the student's transcript a notation of the action taken. This notation remains on the student's transcript until he petitions for its removal. This procedure does not conform to the standards of the Committee on Transcript Adequacy of the American Association of Collegiate Registrars and Admissions Officers.

To make our procedure conform to the national standard, the Committee on Student Affairs has amended the codification of techniques so that notations of disciplinary actions will be removed at the time of graduation or by petition of the student after the period specified by the disciplinary agency.

A communication from the Senate Committee on Rules was read as follows:

The Rules Committee reported to the Senate at the January meeting it intended to make editorial changes in the Rules for Undergraduate Students. This recommendation was accepted by the Senate.

The Rules Committee has reviewed Mr. Koser's report and recommends those changes he suggests be made editorially for the following rules only: A, C, D, E, (except E-5), F, G, H, I, (except I-9), L, M, O (except O-7), Q, R, T, X.

Note that the P rule changes have not yet been approved.

The Committee on Committees reported that President Walker had approved the following changes in the membership of the Senate Committee on Continuing Education Policy:

1. That A. H. Reede was named chairman of the Committee, temporarily replacing A. W. Hutchison.
2. That M. E. John was named vice chairman of the Committee temporarily replacing A. H. Reede.
3. That Thomas Wartik replaced A. W. Hutchison on the Committee for the remainder of this academic year.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." Mr. Shelly moved approval of paragraph I A of appendix "B" including proposals numbered 249-250, 253-258, 260-263, 265, 272-273, 275-288, 291-298, 300, 302, 304-358, and paragraph I B which included proposals as altered numbered 248, 251, 259, 264, 270, 271, 274, 290, 299, 303. In making his motion he called attention to the fact that the material on page 2 of his report concerning changes in Majors in the College of Agriculture was not included because in accordance with procedures previously announced the Committee had approved these majors as involving no substantive changes. The motion was seconded. In response to an inquiry from Leon Gorlow the chairman stated that the material recommended for approval did not contain changes in the programs in the College of the Liberal Arts. (Secretary's note: Following the meeting Prof. Shelley called to the attention of the secretary and Prof. Gorlow the fact that he had been in error in stating that no proposals changing programs in the College of the Liberal Arts were contained in the material under consideration). The motion was passed. Mr. Shelley thanked the Colleges for their cooperation in getting material to the Committee which enabled the Committee to meet the deadline set for getting catalog material to the College editor. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "C" regarding "General Policy Pertaining to Associate Degree Programs" and "General Education Requirements for the Associate Degree." He stated the reason for interest in the Associate Degree Programs at this time was a letter from the Middle States Association. The Committee has been studying these programs for five months and presents the following definition:

An associate degree program is not the same as the first two years of any baccalaureate program; rather it is a program designed with a definite purpose in mind, and proposed only when a real need for it is demonstrated. An associate degree is awarded after the completion of a course of study of at least two years duration, consisting of material studied at collegiate level, but not necessarily of baccalaureate level.

He moved adoption of this statement defining the Associate Degree Programs. The motion was seconded. After discussion by Messrs. Mather, Schanz, and Aston. B. F. Howell moved that the definition be amended by changing the word "level" to "character." The motion was seconded and passed. I. H. Kochel suggested that in defining something as important as this we should say what it is before we say what it is not. He moved that the statement be changed to read:

An associate degree program is a program designed with a definite purpose in mind and proposed only when there is a real need. An Associate Degree Program is not necessarily the same as the first two years of any baccalaureate degree program. An associate degree is awarded after the completion of a course of study of at least two years duration, consisting of material studied at collegiate level, but not necessarily of baccalaureate character.

The motion was seconded. After further discussion by Messrs. Murray, Mather,

(Continued on page four)

Predicting court's decisions

FOR a number of reasons, lawyers preparing either civil or criminal cases would like to be able to predict the outcome of the case before the court even convenes. Usually, the lawyer will consider the factors involved in the case, look up the results of similar cases, and subjectively estimate his chances of success.

"But he is hindered in his predictions," says Dr. Stuart Nagel, instructor of political science, "by not knowing how much importance to attach to the various factors involved. Seldom will he find a prior case which is *exactly* the same in its combination of factors as the case under question but he may find quite a number which are similar. If he had a formula or technique for weighing the various factors in the several precedent cases, he might be able to predict more accurately the ultimate outcome.

In recent articles in two publications, Dr. Nagel described just such a method. In the September 1960 issue of *Modern Uses of Logic in Law*, quarterly journal of the Electronic Data Retrieval Committee of the American Bar Association, he wrote on "Weighing Variables in Judicial Prediction." For the December issue of *The American Behavioral Scientist* he wrote on "Using Simple Calculations to Predict Judicial Decisions." The February issue of *The Practical Lawyer* contains a reprint of Dr. Nagel's second article.

In broader aspect, Dr. Nagel's articles suggest the "revolution" which is beginning to take place within the legal profession, an adjustment to techniques of statistical analysis and to the use of automation and "mechanical brains." One potential use of electronic equipment is to feed it the contents of an entire law library, then ask it to answer questions as to what principles and what authorities cover a given case.

"If such retrieval methods were available to all lawyers on an equal basis," Dr. Nagel says, "the contents of the best law libraries would be a postcard or IBM card away from the lawyer in the smallest town.

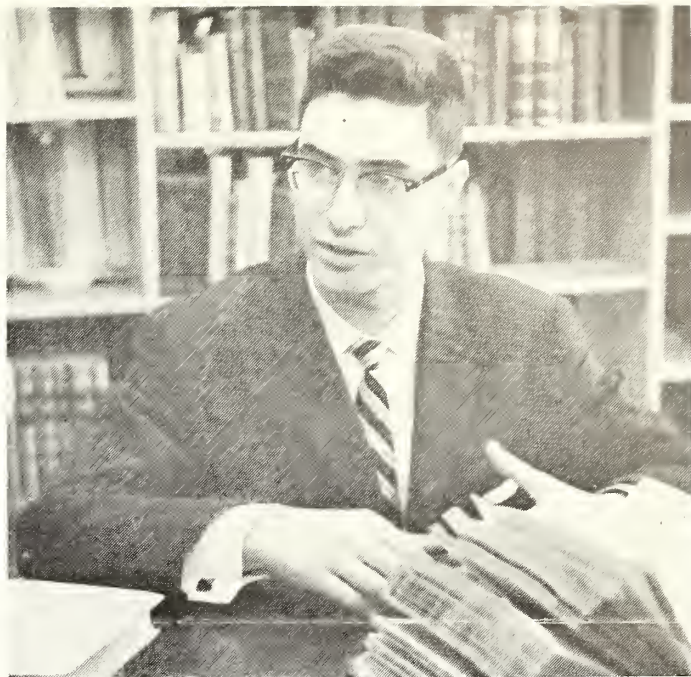
"To that extent, every client would have access to information. Today, some law firms simply can't spend the time or the money on all the research necessary and especially so if a good law library is hundreds of miles away."

Even with such mechanical aids lawyers would scarcely become machines themselves because they would still be responsible for selecting the bare essentials of a controversy from among the confused information the client gives him. Also, of course, they would have to present the findings of the computer in court or in legal documents and to assemble the information which goes into the computer in the first place.

Relatively few legal controversies are settled simply by looking up precedent because invariably the case in point is in some respect different from any other ever decided by the courts. (Any prediction methods, it is pointed out, must necessarily depend on the "consistency" of the court.)

Dr. Nagel explains with a highly simplified illustration. "Let us assume a lawyer wants to know if a confession to *shoplifting* is admissible in court if it was obtained from a *mentally dull boy* who was subjected to *protracted questioning* after being held *incommunicado*. (Note that the words italicized are considered significant factors in the case.)

"The lawyer finds, through research, that in a previous



Dr. Stuart Nagel

case the confession was not admissible, but some of the circumstances were different: the boy was *mentally bright* but in place of the *shoplifting* charge, *murder* was involved. In another case, the circumstances were the same except that the defendant was not held *incommunicado*, and in still another case, he was not subjected to *protracted questioning*.

"The question then becomes, 'When the court makes its decision, how much importance is it going to attach to each of these variables in deciding whether the confession should be admitted or excluded?' Perhaps it will give less importance to the mental condition of the defendant and more to the fact that he was held *incommunicado*.

"Predicting what the court will do falls within the area of statistical analysis when there is no prior case exactly like the one at the bar and where there is enough prior experience."

Dr. Nagel's analysis method involves determining a series of correlation coefficients which represent the importance of each variable in obtaining victory for the affirmative. The method is relatively simple and results could be obtained with only arithmetical calculations. However, the more variables introduced and the more cases serving as background, the more useful calculators and computers would be.

Some cases, Dr. Nagel says, have insufficient legal precedent for such analysis and the attorney has less hope of predicting the court's decision. Each case, however, adds to the store of knowledge concerning the court's reactions to various factors likely to be encountered, so that prediction analysis will improve with time.

"Legal research automation fits in nicely with prediction analysis," Dr. Nagel says, "because it makes available to any attorney the sum total of applicable cases, if he knows what to ask for, and therefore provides more data to strengthen the predictions.

"Automation won't make all attorneys equal in ability; it will greatly reduce the variable of time and money in research.

"When will it come about? One authority says by 1985; perhaps it will be sooner. There is a tremendous job of indexing to be done before it can ever be accomplished and of preparing the materials for computers.

"But eventually it will be done."

Senate —

(Continued from page two)

Ridge, Wartik, Schilling, Schanz, and Aston the motion to amend the recommendation was passed 89 to 76. The question on the main motion as amended by Messrs. Howell and Kochel was passed.

Mr. Schanz then presented Item II — General Education Requirements for the Associate Degree. He moved adoption of the recommendation that

the general education content of associate degree programs consist of a minimum of 21 credits.

He mentioned that the Committee thought that associate degree admissions requirements should permit the admission of the upper three-fifths of high school graduates without examination. He stated that general education as used in the proposal is in accordance with the definition stated in the objectives of the University taken from the Senate minutes of December 2, 1954. The Committee on Educational Policy has suggested to the Committee on Courses of Study that the 21 credits of basic courses should include 3 credits in social science, 3 credits in the arts of humanities, 3 credits in English, 3 credits in speech, 6 credits in physical science, biological science, or mathematics, and 3 credits in general education electives. The motion was seconded. H. K. Schilling asked whether the Middle States Association will judge the University on its own objectives or on the objectives of the Association? President Walker said it is the custom of the Association to use its own standards in addition to the standards of the University. W. H. Powers said he was in sympathy with the Committee but that it was impossible to teach general education and to develop employable skills in two years so they had sacrificed some courses. He pointed out that it will require seven terms if we add more courses to the programs, which will necessitate more faculty. Mr. Schanz stated we should not worry about the faculty at this time but get the basic principles first. The motion was passed. The complete report is on file in the office of the secretary.

Unfinished Business

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "D" and moved adoption of the amendment to change the meeting day of the Senate from the first

Thursday to the first Tuesday of each month. The motion to amend was seconded and passed. The motion to change Article IV, Section 1 of the By-Laws as amended was passed by more than two thirds. Article IV, Section 1 now reads:

Regular meetings of the University Senate shall be held at the beginning of the sixth period on the first Tuesday of each month from October to August inclusive, except as otherwise provided in Section 3 of this Article. In announcing any meetings of the University Senate, the chairman may invite the attendance of visitors from the general faculty.

In answer to an inquiry from B. F. Howell the chairman stated that the changed By-Law would become effective with the term system in June, 1961.

New Business

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved that

For the remainder of the academic year 1960-61 the privilege of attending Senate meetings, unless the meeting be designated as a closed session, be granted to representatives of WDFM.

The motion was seconded and passed.

Comments and Recommendations for the Good of the University

The president stated that the fiscal year will remain unchanged because the State Government has changed its fiscal year to match ours. He also discussed the financial needs of the University and his plans to make these needs known to the people of the Commonwealth.

The exofficio members were excused at 5:30 p.m. The elected members remained to elect replacements for C. R. Kinney and M. N. McGeary on the Tenure Committee. (Secretary's note: The meeting to elect replacements on the Tenure Committee was held under the chairmanship of L. H. Sommer, Chairman of the Senate Committee on Faculty Affairs. The nominations from the floor were made for the following five professors: Warren Smith, R. Wallace Brewster, J. G. Aston, Kinsley R. Smith, and Lawrence Fouraker. Professors Brewster and Fouraker were elected to serve on the Tenure Committee).

The next regular meeting of the Senate will be on March 2, 1961; the agenda will be distributed on February 16, 1961.

Robert G. Bernreuter
Secretary

Calendar —

(Continued from page one)

Wednesday, Mar. 1

Forestry Convocation, 11 a.m., Room 121 Sparks. George P. Kramer, personnel officer, Eastern Region U. S. Forest Service, on "Careers in Forestry."

Chess Club meeting, 7 p.m., HUB card room.

NDEA French Institute film program, 8 p.m., Room 209 Home Economics South. "Papa, Maman, la bonne et moi" (Papa, Mama, the maid, and I). With English subtitles.

Psychology Colloquium, 12 noon, HUB dining room "A."

Thursday, Mar. 2

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. John G. Aston, on "The System Hydrogen-Palladium."

News —

(Continued from page one)

► **CCLE:** Continuation of the activities of the Center for Continuing Liberal Education is assured with the receipt of a grant of \$350,000 from The Fund for Adult Education this week. President Walker accepted the grant from C. Scott Fletcher, president of the Fund.

The University was commended for its progress in the adult education work and Fletcher expressed the confidence that it will become one of the great adult education centers in the nation.

Under terms of the grant, the University will provide matching funds annually for five years and in 1966 will assume full responsibility for financial support of the Center.

The Center was established on an experimental basis in 1958, and the Fund has made grants of \$298,000 and \$60,000 to aid the program. During the last three years some 4,000 adults took part in the CCLE offerings in 40 different towns and cities.

faculty BULLETIN

Vol. 48, No. 30

Feb. 24, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T. I. MATS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Chapel choirs

Some 70 singers will make up the summer Chapel Choir which will tour Europe this summer, from July 17 to August 25. This is the fourth tour by the Choir, which has gone abroad in alternate years since 1955.

Included in the group this year will be members of the regular Chapel Choir, 13 alumni of the group, and representatives of the several Meditation Chapel Choirs.

The itinerary will include visits at Oxford, Coventry, London, Paris, Geneva, Riffelberg (Switzerland), Salzburg, Vienna, Bayreuth, Prague, and Edinburgh. Festivals at Salzburg, Bayreuth, and Edinburgh are to be visited.

Each of the tours is designed as an educational venture. The program this year will include lectures and discussions covering the art, government, and socio-economic conditions in each of the countries visited. Dr. Margaret B. Matson, assistant professor of sociology, will direct this phase of the tour.

Reverend Luther H. Harshbarger, University chaplain, and Willa C. Taylor, director of the Choir, have general supervision of the tour and James W. Beach, assistant director of the Chapel Choirs, will be musical director.

A Music Festival Tour group, to include among its 25 members students, faculty and alumni who are interested in music, is also being organized by the Music Department. The

(Continued on page four)

NEWS IN BRIEF

► **TESTS:** The next Admission Test for Graduate Study in Business will be given Saturday, April 8. Application for the test, along with the fee of \$10, must be submitted to the Educational Testing Service, 20 Nassau St., Princeton, N. J., no later than March 25. Information and application blanks may be obtained from Dr. R. L. Clewett, 122 Boucke, or the test supervisor, Dr. A. V. Kozak, 311 Burrows.

► **ARTIFACTS:** A display of stone implements such as celts, axes, chisels, pestles, and arrowheads is on display in the foyer of Pattee Library, artifacts of North American Indians collected by Stephen Hyatt, graduate assistant in the department of agricultural economics and rural sociology.

The display will continue until March 20.

► **RECORDINGS:** Recordings of the Chapel Choir's May, 1960, performance of Verdi's Requiem are available at the 2nd floor desk in the Helen Eakin Eisenhower Chapel, UN 5-6548. Dr. Hugo Weisgall, then distinguished visiting professor of music, conducted the Choir in this work.

► **MEMORIAL:** A memorial fund to honor Lawrence and Barbara Werboff, faculty members who were killed in an automobile accident Jan. 30, is being established by their friends to purchase children's books for the Bella Schlow Memorial Library, 222 W. College Ave. Checks may be made out to the Werboff Memorial Fund and sent to the Library.

► **THESPIANS:** The Penn State Thespians will present Leonard Bernstein's "Wonderful Town," based on the Broadway show, "My Sister Eileen," Thursday, Friday, and Saturday evening, March 16, 17, and 18, at 8 p.m., and also Saturday at 2 p.m. Tickets for the show may be obtained at the HUB desk, beginning Monday, March 13.

► **EXHIBITION:** An exhibition of contemporary prints which opened on February 19 at the B'nai B'rith Hillel Foundation, 224 Locust Lane, will continue to March 12. Twenty-seven prints by eleven artists are exhibited including the work of Bruce Shobaken, Assistant Professor of Art, and John Cataldo, Associate Professor of Art Education. Etchings, serigraphs, woodcuts, lithographs, paper relief cuts, and intaglios are on display. The exhibition is open to the public daily from 9:30 a.m. to 10:00 p.m. Prints are available for purchase.

► **FORUM:** Dr. Paul Peachey, research fellow at the Institute of Mennonite Studies, will speak on "Faith and Revolution" at the weekly University Christian Association Forum Saturday, March 4 at 8 p.m., in the Chapel Lounge.

The next program in the weekly series will be the U. C. A. Annual Assembly, Saturday, March 11, beginning at 4 p.m. in the Hetzel Union Building. The subject of the assembly is "Challenges to the Campus Ministry in the 1960's."

► **TRANSLATED:** "Display for Learning," a book by Dr. Marjorie East, head of the department of home economics education, published in 1952, has been translated into Japanese. Written for teachers, the book discusses production and use of visual materials in teaching.

► **ALUMNUS:** Dr. Herbert E. Longenecker, who last June was named Distinguished Alumnus of the University, will be inaugurated president of Tulane University on April 15.

► **INSTITUTE:** A Summer Institute in reactor theory will be conducted from June 19 to Aug. 11 at University Park. It is expected to attract some 20 members of engineering faculties at universities throughout the country. The AEC and the American Society for Engineering Education are sponsors of the program. Dr. Alan Jacobs, research associate in the department of nuclear engineering, is director of the Institute.

Schedule

Revisions of the Winter and Spring 1962 Terms have been announced, as of Feb. 18. The complete calendar of the next year is as follows, subject to change:

SUMMER TERM

June 13-14	(T-W) Registration.
June 15	(Th) Classes begin, 8 a.m.
July 4	(T) Independence Day recess.
Aug. 24	(Th) Classes end, 9:55 p.m.
Aug. 26	(Sat) Commencement.

FALL TERM

Sept. 17-23	(Sun-Sat) Orientation Week.
Sept. 20-23	(Wed-Sat) Registration.
Sept. 25	(M) Classes begin, 8 a.m.
Nov. 23	(Th) Thanksgiving recess.
Dec. 7	(Th) Classes end, 9:55 p.m.

WINTER TERM

Jan. 3-4	(W-Th) Registration.
Jan. 5	(F) Classes begin, 8 a.m.
Mar. 17	(S) Classes end, 9:55 p.m.

SPRING TERM

Mar. 26-27	(M-T) Registration.
Mar. 28	(W) Classes begin, 8 a.m.
Apr. 22	(S) Easter recess.
June 8	(F) Classes end, 9:55 p.m.
June 9	(S) Commencement.

Registrar Reports on Enrollment for Spring Semester 1961

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	—	—	1	13	1	7	—	8	30
AERS	—	—	2	9	4	19	2	14	50
AgEd	—	—	2	24	3	28	5	52	114
AgJ	—	—	—	2	—	—	—	—	2
Ag	15	244	1	—	—	—	—	—	260
Agro	—	—	—	6	—	7	1	6	20
AH	—	—	1	23	2	19	2	20	67
Bact	—	—	—	12	1	6	—	7	26
BPP	—	—	—	4	—	3	2	1	10
Consv	—	—	—	—	2	2	—	1	5
DSc	—	—	1	32	1	10	3	30	77
FRD	—	—	—	—	—	—	—	1	1
GnAg	—	3	—	5	1	10	1	6	26
Hort	—	—	—	16	4	17	4	16	57
LArch	1	4	2	13	1	8	2	18	49
MedT	—	—	2	21	2	11	—	16	52
PH	—	—	—	1	—	2	—	2	5
PV	—	—	4	26	1	11	—	1	43
ZE	—	—	2	16	3	16	3	21	61
2Ag	—	5	—	9	—	—	—	—	14
2MDT	—	—	—	3	—	—	—	—	3
School of Forestry									
For	—	—	3	57	1	57	2	56	176
WU	—	—	—	7	2	5	—	9	23
Total	16	256	21	299	29	238	27	255	1171
BUSINESS ADMINISTRATION									
BA	7	333	30	320	55	329	67	350	1491
Total	7	333	30	320	55	329	67	350	1491
CHEMISTRY & PHYSICS									
C&P	3	328	—	—	—	—	—	—	331
ChE	—	1	3	70	—	50	—	54	178
Chem	—	4	2	46	4	35	4	24	119
Phys	—	3	2	56	3	36	9	27	136
PM	—	2	4	37	6	28	2	29	108
Sc	—	1	—	9	3	12	3	17	45
Total	3	339	11	218	16	161	18	151	917
EDUCATION									
AEd	—	4	3	38	2	36	5	26	108
ED	21	676	—	—	—	—	—	—	697
EKEd	—	11	16	271	21	234	22	156	731
IARt	—	—	4	11	6	17	6	22	66
MusEd	—	1	3	19	6	19	5	21	74
Psy	—	2	5	94	26	84	21	71	303
RehEd	—	—	—	7	—	7	2	4	20
SecEd	—	13	15	159	32	233	35	159	646
VIEd	—	—	—	—	2	1	3	4	10
Total	21	707	46	599	95	625	99	463	2655
ENGINEERING & ARCHITECTURE									
AcroE	—	—	3	45	4	36	7	49	144
AgE	—	11	1	17	—	12	—	11	52
Arch	1	50	6	36	1	14	4	32	144
AE	1	18	—	6	—	9	4	19	57
CE	—	—	7	46	5	58	14	52	182
EE	—	—	9	184	32	193	41	188	647
EMch	—	—	—	18	2	15	3	6	44
Engr	21	592	11	5	—	—	—	—	629
ESc	—	—	—	26	1	15	2	20	64
IE	—	—	1	27	11	46	7	47	139
ME	—	—	3	80	17	75	16	90	281
SE	—	—	—	—	—	3	—	3	6
Total	23	671	41	490	73	476	98	517	2389
HOME ECONOMICS									
HEc	3	190	5	142	6	118	8	117	589
HA	—	—	—	—	1	17	3	20	41
2HFS	1	3	—	4	—	—	—	—	8
Total	4	193	5	146	7	135	11	137	638
THE LIBERAL ARTS									
AL	—	15	25	339	45	363	61	240	1088
LA	26	577	—	—	—	—	—	—	603
LMR	—	—	—	13	2	12	4	11	42
School of The Arts									
AArt	—	1	2	32	7	21	5	14	82
Arts	—	—	1	9	1	18	—	13	42
School of Journalism									
Journ	—	—	3	62	7	48	9	34	163
Total	26	593	31	455	62	462	79	312	2020

Registrar Reports on Enrollment for Spring Semester 1961

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total						
MINERAL INDUSTRIES															
CerT	—	1	1	11	—	8	—	10	31						
FT	—	—	—	10	—	9	2	10	31						
Geog	—	—	1	6	1	11	1	3	23						
G&C	—	—	—	5	1	6	3	10	25						
G&M	—	—	1	11	1	5	—	16	34						
Metal	—	1	—	20	3	27	2	23	76						
Meteo	—	—	1	16	4	12	4	41	78						
MnI	15	110	—	—	—	—	—	—	125						
MnEc	—	—	—	8	1	10	1	7	27						
MPE	—	—	—	2	—	3	—	2	7						
MngE	—	1	—	6	—	2	1	9	19						
PNCE	—	—	1	6	2	11	1	8	29						
Total	15	113	5	101	13	104	15	139	505						
PHYSICAL EDUCATION & ATHLETICS															
PhEd	2	78	5	62	5	66	9	56	283						
RcEd	—	1	1	8	1	9	3	13	36						
Total	2	79	6	70	6	75	12	69	319						
DIVISION OF COUNSELING															
Counseling	4	425	40	283	23	62	5	3	845						
TOTAL UNDERGRADUATES	121	3709	236	2981	379	2667	431	2426	12950						
U. P. Campus	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Full-time	2302	1517	2041	1159	2073	952	2108	691	628	126	22	9	9174	4454	13628
Part-time	10	1	11	6	13	8	40	18	1040	260	124	152	1230	445	1683
Total	2312	1518	2052	1165	2086	960	2148	709	1668	386	146	161	10412	4899	15311
Other Campuses (see summary below)															
Full-time (4-Yr)	953	296	335	123	30	3	—	—	1	—	8	5	1327	427	1754
Full-time (2-Yr)	678	1	444	3	14	—	—	—	—	—	1	—	1142	4	1146
Part-time (4-Yr)	10	3	4	2	3	—	—	—	18	4	47	45	82	54	136
Part-time (2-Yr)	24	—	38	—	19	—	—	—	—	—	2	—	83	—	83
Total (includes Mont Alto)	1665	300	826	128	66	3	—	—	19	4	58	50	2634	485	3119
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	140	88	770	652	910	740	1650
TOTAL ALL CAMPUSES	3977	1818	2878	1293	2152	963	2148	709	1827	478	974	863	13956	6124	
	5795		4171		3115		2857		2305		1837		20050		

Summary of Enrollment at Other Campuses

	Four-Year		Graduate		Special		Two-Year		Total
	FT	PT	FT	PT	FT	PT	FT	PT	
Allentown	—	—	—	—	—	—	78	2	80
Altoona	206	1	1	17	8	53	121	9	415
Behrend	161	1	4	1	—	17	87	7	278
DuBois	81	—	—	—	—	4	58	1	144
Hazleton	152	3	—	—	—	—	75	2	232
McKeesport	117	8	—	—	—	5	164	25	319
Mont Alto	98	—	—	—	—	—	—	—	98
New Kensington	—	—	—	—	1	—	67	9	77
Ogontz	772	9	—	—	2	12	84	1	868
Pottsville	154	—	—	—	2	8	31	1	196
Scranton	—	—	—	—	—	—	79	5	84
Wilkes-Barre	—	—	—	—	—	—	114	6	120
Wyomissing	—	—	—	—	—	—	89	1	90
York	—	—	—	—	1	1	103	13	118
Total	1740	22	5	18	14	94	1145	81	3119

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	267	25	10	2
Business Adm.	65	2	16	12
Chem. & Phys.	281	18	7	1
Education	311	133	36	35
Eng. & Arch.	187	—	20	5
Home Economics	4	60	1	24
Liberal Arts	284	123	46	79
Mineral Ind.	221	5	6	1
Phys. Ed.	28	12	4	2
General Graduate	20	8	—	—
Total	1668	386	146	161
	2054		307	

Recapitulation

U. P. Campus	M	W	Total	Other Campuses and Off-Campus	M	W	Total
Full-time undergraduate	8546	4328	12874	Full-time undergraduate	2468	431	2889
Part-time undergraduate	198	185	383	Part-time undergraduate	147	50	197
Total undergraduate	8744	4513	13257	Part-time Continuing Ed. undergraduate	770	652	1422
Full-time graduate	628	126	754	graduate	140	88	228
Part-time graduate	1040	260	1300	Full-time graduates	1	—	1
Total graduate	1668	386	2054	Part-time graduates	18	4	22
Total U. P. Campus	10412	4899	15311	Totals	3544	1225	4769
Totals All Campuses				M	W	Total	
Undergraduate				12129	5646	17775	
Graduates				1827	478	2305	
Grand Totals				13956	6124	20080	

CALENDAR

Friday, March 3

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Bruce E. Brown, professor of geology, University of Wisconsin, on "Studies in the Potash-Feldspar Group."

Saturday, March 4

Varsity wrestling, versus Rutgers, 7 p.m.; varsity basketball, versus Rutgers, 8:45 p.m. University Christian Association Forum, 8 p.m., Helen Eakin Eisenhower Chapel. Dr. Paul Peachey, Institute of Mennonite Studies, on "Faith and Revolution."

Sunday, March 5

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Calvert N. Ellis, president, Juniata College.

Illustrated lecture by Gordon Wright, 8 p.m., Home Economics Auditorium. Films of U. S. Equestrian team, Olympic Games. Sponsored by Penn State Riding Club.

Concert by combined Men's Glee Club and Women's Chorus, 3 p.m., Schwab Auditorium.

Monday, March 6

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Teresa Cohen, professor of mathematics, "Forty Years Ago."

Engineering Mechanics Seminar, 1:15 p.m., Room 206 Hammond. Dr. Horace J. Grover, Batelle Memorial Institute, Columbus, Ohio, on "Crack Propagation under Repeated Loading."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. H. W. Taylor, Queen's University, Kingston, Ontario, on "A Coincidence Study of the Decay of Cs 132."

Academic Year Science Institute lecture, 7:30 p.m., Room 119 Osmond. Dr. Martin Lindauer, Zoological Institute, Munich, Germany, on "Evolution of Social Community in Bees."

Tuesday, March 7

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. A. J. Schindler, head of the metal physics branch, U. S. Naval Research Laboratory, on "The Effects of Alloying and Hydrogen Absorption on the Electronic Transport Properties of Palladium."

Film Series, "Talking Sense," (Engineer-

ing 3 lecture) 4:30 p.m., Schwab Auditorium.

Academic Year Science Institute, 4:15 p.m., Room 111 Boucke. Dr. Martin Lindauer, Zoological Institute, Germany, on "Demonstrations and Experiments in Color Senses, Chemical Senses, and Communications in Bees."

Geophysics Seminar, 3:15 p.m., Room 121 Mineral Industries. J. C. Redmond, on "Induced Polarization Prospecting."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Autumn Green," by Roxanne Walton, directed by Robert Wolff.

Wednesday, March 8

French film, "Papa, Maman, la bonne et moi," 8 p.m., Room 209 Home Economics South, sponsored by the NDEA French Institute. Admission free.

Chess Club meeting, 7 p.m., HUB card room.

Forestry Convocation, 11 a.m., Room 121 Sparks. G. Melvin Douglass, U. S. Civil Service Commission, Region III, on "The Work of the Civil Service Commission."

Thursday, March 9

Psychology Colloquium, 8 p.m., Room 214 Boucke. Dr. Delos D. Wickens, professor of psychology, Ohio State University, on "The Conditioned Stimulus in Learning."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. J. R. Platt, University of Chicago, on "Locating the Triplet State in Benzene and Other Aromatics."

COMING EVENTS

- Mar. 16 — Meditation Chapel Choir Lenten music, 4:15 p.m.
- Mar. 16 — Thespian Show, Schwab, 8 p.m.
- Mar. 17 — Thespian Show, Schwab, 8 p.m.
- Mar. 18 — Thespian Show, Schwab, 8 p.m.
- Mar. 18 — High school wrestling championships.
- Mar. 19 — Artists Series, Errol Garner, Rec Hall, 8 p.m.
- Mar. 21 — Lenten concert by Meditation Chapel Choirs, 8 p.m.
- Mar. 23 — Graduate School Lecture by Dr. Harry Wexler, 8 p.m.
- Mar. 24 — Artists Series, Victoria de Los Angeles, 8:30 p.m.
- Mar. 26 — Chapel Choir Easter Concert, 8 p.m.
- Mar. 26 — Blue Band concert, 3 p.m.
- Mar. 29 — Spring recess begins at 11:50 a.m.

Personnel Matters

Dr. Frederick F. Lininger, retired director of the Agricultural Experiment Station, has been appointed visiting professor to the University of Mandalay, Burma. He will work through the University of Florida to put into effect a program of agricultural improvements in Burma.

Dr. Raymond Sanger, head of the Laboratory of Atmospheric Physics, Swiss Federal Institute of Technology, Zurich, will be the guest of the department of meteorology until March 10. He came this week to deliver a number of lectures and take part in discussions with the staff and graduate students.

Delbert L. Eckhart, 1956 graduate of the University in animal husbandry, has been named Schuylkill County assistant county agent. He has served in the U. S. Navy since graduation, as Lieutenant (jg) in naval communications.

Chapel choirs —

(Continued from page one)

group will attend performances of the Salzburg, Bayreuth, Verona, and Edinburgh festivals. The tour will include many of the cities as that of the Choir, and in addition Venice, Rome, Verona, and Nice.

Leaders of this group will be Barry Brinsmaid, assistant professor of music, and Mrs. Viktor Lowenfeld. Brinsmaid will conduct music seminar sessions for both the Choir and the Festival tour.

Application for membership in the Festival Tour may be made to the Music Department, 216 Carnegie, or to Mrs. Taylor, Eisenhower Chapel. These tours are unsubsidized.

faculty BULLETIN

Vol. 48, No. 31

March 3, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Scholarships

A program of Faculty Aide Scholarships which will be of benefit both to outstanding junior and senior students and to members of the faculty has been developed, to begin with the 1961 Summer Term.

"The basic purpose of these scholarships," explains President Eric A. Walker, "is to aid outstanding junior or senior students in the various academic departments of the University to acquire additional funds for the Summer Term as well as to gain valuable experience by close association with members of the faculty through work in their specialized fields."

The amount of the work scholarship will vary with the length of the period covered by each work project, but not to exceed \$100. A total of 100 scholarships will be available for the 1961 Summer Term.

The member of the faculty who will direct the student's work must nominate the student for the scholarship to the Director of Student Aid, Ralph N. Kreckler, who will make the final selection in consultation with appropriate University officials. The student is expected to work on projects related to the faculty member's specialized University teaching or research responsibility.

Nomination of the student by the member of the faculty will be made on a special form available from Kreckler's office, 218 Willard. The form requires general information about the student and his need, a

(Continued on page four)

NEWS IN BRIEF

► **COLLOQUY:** A colloquy on the subject, "The Academic Community: A Problem in Compromise," featuring an address by Dr. Edward Leroy Long, Jr., associate professor of religion, Oberlin College, will be held Saturday, March 18 at 2 p.m. in the Chapel Lounge.

Faculty members, graduate students, and administrators are invited to attend the address, a discussion of the topic by a panel of Penn State faculty members, a tea, and a general discussion. The colloquy will close at 5 p.m.

Dr. Long, whose talk is titled "Conscience and Compromise," is the author of "The Religion of Scientists" and "The Christian as a Doctor," as well as a book also titled "Conscience and Compromise."

The Faculty Committee of the University Christian Association is sponsor of the colloquy.

► **ST. PATRICK'S:** The Hetzel Union Building Terrace Room cafeteria will mark St. Patrick's Day with a candle-light dinner and appropriate decorations on Thursday, March 16. The day before the Terrace Room will have observed its sixth anniversary of food service.

► **THESPIANS:** Tickets will go on sale at the HUB desk Monday for the Penn State Thespians' production of the Leonard Bernstein musical show "Wonderful Town," which will be given Thursday, Friday, and Saturday, March 16, 17, and 18 at 8 p.m. and also Saturday at 2 p.m.

► **DEPOSIT:** A single deposit to cover loss, damage, and breakage fees will be required of all students beginning with the Fall Term. The deposit will be collected with other fees and at graduation will be refunded after deduction of charges. Students will be required to maintain a balance of \$15. For incoming freshmen, readmitted students, and those admitted with advanced standing the fee will be \$50; for undergraduates now at University Park or the Commonwealth Campuses or for those transferring from the Commonwealth Campuses to University Park, the fee will be \$25.

► **TOUR:** Faculty, alumni, and students who are interested in music, and in particular European Music Festivals, may wish to take part in a tour this summer sponsored by the department of music and the Chapel Choir.

The tour will include travel in England, Scotland, France, Germany, Switzerland, Austria, and Italy be-

tween July 17 and Aug. 25. Part of the tour will coincide with that of the Chapel Choir. The group will visit the world-famous Mozart and Wagner festivals as well as those at Verona, Italy, and Edinburgh, Scotland.

Barry Brinsmaid, assistant professor of music, and Mrs. Viktor Lowenfeld will lead the tour. Brinsmaid will conduct seminar sessions en route in preparation for the musical works to be heard. Other educational experiences are being planned for each of the countries to be visited.

Travel will be via jet, departing Idlewild International Airport July 17 and returning from Prestwich, Scotland, Aug. 25. All-inclusive cost is \$997. Early application for the few places remaining may be made through the Music Department Office, Room 216 Carnegie or Mrs. Willa Taylor, 214 Eisenhower Chapel.

► **PEACE CORPS:** Lawrence E. Dennis, vice-president for academic affairs, will serve as a full-time consultant to the U. S. Government in the Peace Corps program while on a six-month leave beginning March 15.

He will have executive responsibility for carrying out the objectives of the training program as one of 14 persons named recently to assist R. Sargent Shriver, newly appointed director of the Peace Corps.

Training of the 500 to 1,000 volunteers who will work overseas under the pilot program is expected to begin early in the summer. Dennis will be concerned with the selection and coordination of institutions that will participate in the training, the staff, the study program, and the task assignments overseas.

► **HELP:** Many students are currently inquiring about the availability of regular part-time work during the 1961 Summer Term. Members of the faculty and staff who wish student help for regular summer teaching or research activities for special projects, or for routine chores on campus or at home are urged to direct their requests to the Office of Student Aid, 218 Willard, UN 5-6301.

This office maintains a register of such jobs, informs students of openings, and screens student applicants for final selection by the faculty or staff member.

Notification of openings is especially significant now, in view of the fact that many students are considering remaining on campus for the summer term for the first time, and employ-

(Continued on page two)

University seeks channel three

THE University today announced that it has petitioned the Federal Communications Commission for allocation of VHF television channel 3.

The petition asks allocation of the channel on the basis of its potential service to the people of the Commonwealth, from kindergarten child to professional adult.

"Currently, there are 53 educational television stations in the United States," says Dr. C. R. Carpenter, director of the division of academic research and service. "Of these, 15 are licensed to universities. Nine other institutions are about to start construction of stations.

"With Penn State's background in television it is unthinkable that denial of this petition would bar the University from broadcasting on a VHF channel in the future. The advantages of an educational station to Commonwealth education generally are overwhelming."

Dr. Carpenter explains that a station at the University would be a natural hub for connecting educational stations throughout the entire State. At present there are two educational stations in Pittsburgh and one in Philadelphia, but there is a vast area of the State which is still unserved. Moreover, the programming of all stations which might link into a State-wide network would be made vastly superior by combining the offerings of the many institutions.

"In estimating the requirements for educational television in the future," Dr. Carpenter says, "we need to think beyond the formal classroom, although there is much to be developed there. Millions of people out of school are potential viewers if we have the vision to see it and the wisdom to develop the programs and facilities.

"Commercial stations simply cannot provide all of the kinds of programs educational stations can. The number of available VHF channels is dwindling rapidly and if the University isn't granted channel 3, then only UHF channels remain. UHF isn't feasible at present in our terrain and there are no television sets in Central Pennsylvania equipped for UHF broadcasts."

In its petition to the FCC, the University said that by constructing an antenna tower at Rattlesnake Mt. in Black Moshannon State Park, 25 miles from the campus, and by using a 44-kilowatt transmitter, most of the Central Pennsylvania area, in which 5½ million people live, could be served.

Connecting the University station by microwave equipment to other

education stations would extend the usefulness of the University's programming and make available to the Central Pennsylvania area programs developed by other stations and by such organizations as the National Education Television and Radio Center.

Adjacent to the University live one million people and within a radius of 25 miles live 155,000 people, of whom 35,000 are school-age children.

Contributions which the University has made over a period of years to educational television were cited in the petition. Closed-circuit television, for example, was initiated in 1954-55 and today some 50 courses have been taught with the aid of the system at University Park.

In addition, Penn State has had three years of close cooperation with commercial station WFBG-TV, Altoona, in the production of high-quality programs. Many faculty members have contributed to the program "University of the Air" and "Horizons," which Triangle Publications Co. produces for use by its network of stations.

"It was also explained," says Dr. Carpenter, "that for eight years we carried on a program of research in the instruction film field, resulting in some 70 reports which have been widely distributed and used by those concerned with communications media for educational purposes."

No indication has been given when the FCC will rule on the University's petition.

News —

(Continued from page one)

ment is frequently a deciding factor in their decision.

► **PRIESTLEY:** Dr. Farrington Daniels, professor emeritus of chemistry, University of Wisconsin's Solar Energy Laboratory, is the 1961 Priestley Lecturer in Chemistry.

He will deliver the series of lectures April 10-14 on the general subject, "Selected Applications of Chemical Kinetics," although the first in the series will be on "Using the Sun's Energy."

Dr. Daniels was professor of chemistry at Wisconsin from 1920-59 before retiring. His fields of research have been chemical kinetics, photosynthesis, atomic energy, solar energy, geochemistry, and thermoluminescence. He is the author or co-author of a number of books, including "Solar Energy Research" and "Photochemistry in the Liquid and Solid States."

► **LENTEN:** A special Lenten Service of Worship which will emphasize the music of one of the Meditation Chapel Choirs, directed by James Beach, will be held on Thursday, March 16 at 4:15 p.m. in the Chapel.

Dr. Luther Harshbarger, University chaplain, will be the liturgist, with Rev. P. Barrett Rudd assisting.

The service will follow the Lutheran liturgical evensong form with special anthems by the choir in place of a sermon. The anthems selected are "The Falcon," by John Gerrish; "Crucifixus Etiam Pro Nobis," by Hassler; "Awake Thou Wintry Earth"; and "The Resurrection" by William Billings. Rev. Rudd will intone the sung portion of the liturgy.

► **ARTISTS:** Errol Garner, noted jazz pianist, will be the next performer in the current Artists Series on Sunday, March 19 at 8 p.m. in Recreation Building. Tickets for the program will be on sale to the public from Wednes-

day, March 15, until the day of the performance.

Garner, recognized as a master of improvisation, will appear with bass and percussion.

► **COSMOPOLITAN:** The annual banquet of the Cosmopolitan Club will be held Friday, March 17, at the State College Presbyterian Church with Dr. Salih Al-Toma, cultural attache of the Embassy of Iraq, as guest speaker. The dinner, Near and Far Eastern style, will be at 6:30 p.m.

Tickets at \$1.35 for members and \$1.75 for non-members may be obtained from the Club president, Ranajit Datta (UN 5-2802) or from the Office of International Student Affairs, 108 Willard.

The Cosmopolitan Club serves as a social and cultural organization to promote understanding between foreign students and their American hosts and colleagues.

As part of the program, foreign students will sing and dance.

Alumni fund continues growth

IN any university, but especially those supported largely by public money, many needed projects go begging or are carried on at less than full speed because neither tax money nor tuition income can support them. They depend entirely on the generosity of alumni and friends.

It is only in recent years that Land-Grant universities, and Penn State in particular, have sought such aid by a formal program of giving. Miami University of Ohio, in 1918, was the first public institution to initiate an alumni-giving program and by 1940 only ten such universities had developed funds of this type. Penn State's Alumni Fund began in 1953 but over \$1½ million has already been given by alumni, friends, faculty and staff, clubs, and corporations to support a variety of projects for which neither State nor Federal money is ever provided.

The Helen Eakin Eisenhower Meditation Chapel would not have been possible without Alumni Fund help. Nearly 200 students have been aided by Alumni Memorial Scholarships created by our Penn State alumni. The Pattee Library has been given nearly \$21,000 for acquisitions (one gift made possible the purchase of 100 years of the London Times). And to help furnish the Hetzel Union Building some \$57,000 has been provided.

These are only samples of the kinds of projects which would go unsupported were it not for the generosity of individuals and groups receiving no return on their investment other than the satisfaction of helping to promote something worthwhile.

One of Five

In last year's campaign, which ended June 30, one of every five alumni made contributions totaling \$240,000, tenth highest among the nation's state universities. In terms of donors, in universities having over ten thousand alumni, Penn State stands fifth.

The increasing support by alumni has been accompanied by a heartening response by faculty and staff members, friends, groups and clubs, and by gift-matching corporations.

In many cases this added support is directed toward specific projects, the prerogative of every contributor. Many faculty and staff members con-

tribute to religious activities, through the University Christian Association; others specify that their gifts be credited to the Lou Bell Memorial Fund, a scholarship fund which recognizes the late director of public information. Still others have chosen to contribute to the Retired Staff Assistance Fund. Whatever the specific program, the contributions went to projects which were unsupported a decade ago or received only token aid.

Gifts from corporations were not unusual in the years before the formal Alumni Fund program began in 1953, but they were sporadic. Usually, corporations chose to provide money for research or specific instruction programs which had logical relationship to the company. In 1955 the General Electric Company began a program of contributions to colleges, Penn State among them, by matching whatever gifts their employees made to their alma mater. Since then many other companies have begun similar programs and last year 36 corporations matched 300 alumni gifts totaling more than \$8,000.

Special Gifts

One of the newer developments of the Alumni Fund is the Special Gifts program, which includes alumni who give \$100 or more annually. To date 500 alumni have accepted the challenge to contribute generously. However, the Fund is built largely on the many small contributions of alumni and friends, for last year more than 40% of the total contributions were made by persons who gave from \$1 to \$15.

A year ago, at the suggestion of Dr. H. Beecher Charnbury, head of the department of mineral preparation, the Graduate School Emergency Loan Fund was set up within the Alumni Fund to encourage gifts from alumni of the Graduate School who had received their bachelor's degrees at other colleges. This fund aids graduate students who need short-term loans in meeting last-minute graduate expenses. More than \$2,000 has been contributed so far and most of it is on loan at the present time.

Although contributors to the Alumni Fund may designate a specific use for their gift, many do not. Undesignated gifts are most helpful as they can be used where the need is greatest.

A summary of the funds received and allocated from 1953 through 1960 is as follows:

FUNDS RECEIVED

Year	Amount	No. Solicited	Gifts
1953	\$187,207.09	39,511	7,909
1954	135,238.91	42,371	8,010
1955	234,196.79	43,139	12,134
1956	179,070.91	46,160	9,731
1957	176,142.44	45,593	8,905
1958	152,189.77	40,343	8,873
1959*	100,982.89	54,000	5,358
1960	242,797.43	60,000	10,387
	<u>\$1,413,417.47</u>		<u>71,307</u>

* January to June 1959

FUNDS ALLOCATED

All Faith Chapel	\$ 246,890.15
Class Funds	101,499.04
Colleges and Commonwealth Campuses	63,843.97
Hetzel Union Building	57,098.50
President's Fund	9,678.50
Religious Activities	44,205.33
Retired Staff Assistance Fund	5,410.50
Stone Valley Recreation Area	60,961.14
Student Aids:	
Alumni Memorial Scholarships	127,381.83
Levi Lamb Grants-In-Aid	109,772.78
Lou Bell Memorial Fund	9,305.20
Designated Scholarships	201,257.36
Designated Loan Funds	11,006.51
University Library	20,956.71
Undesignated and Other Designations*	344,149.95
TOTAL	<u>\$1,413,417.47</u>

* Includes such projects as Pattee Autobiography, works of art, student press, campus radio station W3YA, debate teams, Glee Club, Chapel Choir, and Arena Theatre.

Personnel Matters

Stephen M. Raleigh, Jr., 1958 graduate in horticulture, has been named Montgomery County assistant agricultural agent. Since graduation he has seen military service, mostly in Germany, and was employed by Copenhaver Nursery, Camp Hill.

Dr. Dale H. Husemoller, assistant professor of mathematics, has been named Liberal Arts Research Scholar for the Spring Semester, 1961. He is currently writing a book on several complex variables. He plans to work on problems in algebraic homotopy theory and commutative algebra. He joined the Penn State faculty in 1959 after teaching at Harvard and the University of Rochester.

PROMOTIONS

William R. Byrnes, to associate professor of forestry.

Leonard G. Austin, to assistant professor of fuel technology.

Richard R. Thompson, to research associate in geology.

Frederick Y. Borden, to research associate at the Computer Center.

CALENDAR

Friday, March 10

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Otto Rellensmann, director of the Surveying Institute, Clausthal Mining University, West Germany, on "Scientific Developments in Mine Surveying."

Saturday, March 11

University Christian Association Annual Assembly, 4 p.m., Hetzel Union Building, on the subject, "Challenges to the Campus Ministry in the 1960's."

Sunday, March 12

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Reverend Jones B. Shannon, executive director, The Church Society for College Work, on "The One Pearl of Great Price."

Monday, March 13

Faculty Luncheon Club, 12 noon, HUB dining room "A". Dr. Laura Thompson, distinguished visiting professor of anthropology, on "Is a Science of Mankind Emerging?"

Meeting of the Penn State chapter of the American Association of University Professors, 7:30 p.m., Mineral Industries Auditorium. Report on the faculty salary survey.

Tuesday, March 14

Plant Science Club, 7:30 p.m., Room 111 Tyson. Dr. E. F. Osborn, vice-president for research, on "Trends in Research at Penn State."

Academie Year Science Institute Colloquium, 4:15 p.m., Room 111 Boucke. Dr. John A. Sauer, head of the department of physics.

Geophysics Seminar, 3:15 p.m., Room 121 Mineral Industries. J. M. Pfluke, on "The Work of the U. S. Coast Guard and Geodetic Survey in Seismology."

Liberal Arts faculty meeting, 4:15 p.m., Room 121 Sparks.

Electrical Engineering Seminar, 4:15 p.m., Room 207 Electrical Engineering. Dr. T. E. Van Zandt, Central Radio Propagation Lab, National Bureau of Standards, on "Ionization and Recombination in the High Atmosphere."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Fole A Deux" by Julius Tascia, directed by Marvin Katz.

Meeting of the Penn State Chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. Fred C. Langenberg, manager of Applied Process Research, Crucible Steel Co., on "New Steelmaking Processes."

English Colloquium, 7:30 p.m., Nittany Lion Inn. J. Mitchell Morse, on "The Contemplative Life According to Samuel Beckett."

Film presentation, "Talking Sense," 4:30 p.m., Schwab Auditorium (Engineering III lecture).

Thursday, March 16

Talk by Dr. A. B. Richmond, director of the department of pediatrics, State University of New York, on "Child Development: A Basic Science for Child Care," 8 p.m., Room 121 Sparks, co-sponsored by the Social Science Research Center and The Society for Research in Child Development.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. David H. Geske, Cornell University, on "Excursions in Non-Aqueous Electrochemistry."

Meditation Chapel Choir Lenten Musical Service, Helen Eakin Eisenhower Chapel, 4:15 p.m.

Thespian's production of Leonard Bernstein's musical, "Wonderful Town," 8 p.m., Schwab.

Friday, March 17

Meeting of the College of Agriculture faculty, 4:15 p.m., Room 109 Armsby.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. John L. Lumley, associate professor of engineering research, on "Investigations in Turbulence at the Garfield Thomas Water Tunnel."

Cosmopolitan Club annual dinner, 6:30 p.m., State College Presbyterian Church. Speaker: Dr. Salih Al-Toma, cultural attache of the Embassy of Iraq. Songs and dances by the foreign students at the University.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Stanley Dashkin, State University of Iowa, on "Nuclear Reaction with Low Energy Lithium Ions."

Thespian's production of Leonard Bernstein's musical, "Wonderful Town," 8 p.m., Schwab.

COMING EVENTS

- Mar. 18 — Thespian Show, Schwab, 8 p.m.
- Mar. 18 — High school wrestling championships.
- Mar. 19 — Artists Series, Errol Garner, Rec Hall, 8 p.m.
- Mar. 21 — Lenten concert by Meditation Chapel Choirs, 8 p.m.
- Mar. 23 — Graduate School Lecture by Dr. Harry Wexler, 8 p.m.
- Mar. 24 — Artists Series, Victoria de Los Angeles, 8:30 p.m.
- Mar. 26 — Chapel Choir Easter Concert, 8 p.m.
- Mar. 26 — Blue Band concert, 3 p.m.
- Mar. 29 — Spring recess begins at 11:50 a.m.
- Apr. 5 — Spring recess ends, 12:15 p.m.
- Apr. 9 — Artists Series, National Ballet of Canada, 8:30 p.m., Ree Hall.
- Apr. 14 — Center Stage, "The Pleasure of His Company," 8 p.m. (Opening date.)
- Apr. 16 — Student recital, 4 p.m., Schwab.
- Apr. 20 — Artists Series, Andres Segovia, 8:30 p.m., Schwab. Also April 21.
- Apr. 23 — Women's Chorus Concert, 3 p.m., Schwab.

Scholarships —

(Continued from page one)

brief description of the project in which the faculty member is engaged and a statement about the duties for which the student will be responsible; an estimate of the hours of work required, and the period of time within which the duties will be completed.

"There is a myriad of jobs which could qualify under this program," President Walker explains. "I might cite, purely as examples to guide faculty members in their planning, such work as grading papers, doing library research, performing laboratory technicians' work, or preparing drawings or reports."

Students interested in obtaining a Summer Work Scholarship should contact the head of their department.

faculty BULLETIN

Vol. 48, No. 32 March 10, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

CALENDAR

Friday, March 17

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. M. L. Keith, professor of geochemistry, on "Plotting Ancient Shorelines with aid of Chemical and Isotopic Analyses."

Meeting of the College of Agriculture faculty, 4:15 p.m., Room 109 Armsby.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. John L. Lumley, associate professor of engineering research, on "Investigations in Turbulence at the Garfield Thomas Water Tunnel."

Cosmopolitan Club annual dinner, 6:30 p.m., State College Presbyterian Church. Speaker: Dr. Salih Al-Toma, cultural attache of the Embassy of Iraq. Songs and dances by the foreign students at the University.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Stanley Dashkin, State University of Iowa, on "Nuclear Reaction with Low Energy Lithium Ions."

Thespian's production of Leonard Bernstein's musical, "Wonderful Town," 8 p.m., Schwab.

Saturday, March 18

University Christian Association Colloquy, beginning at 1:45 p.m., in the Chapel on subject, "The Academic Community: A Problem in Compromise."

Pennsylvania Interscholastic Athletic Association wrestling championships, Recreation Building.

Sunday, March 19

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Artists Series, 8 p.m., Recreation Building. Erroll Garner, jazz pianist, bass and percussion.

Monday, March 20

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Francena Nolan, on "Maternal Employment and Family Roles."

(Continued on page four)

NEWS IN BRIEF

► **FORUM:** Dr. Samuel Dewitt Proctor, president of the Agriculture and Technical College of North Carolina, will address the University Christian Association Dessert-Forum on Saturday evening, March 25, at 8:00 p.m. in the Eisenhower Chapel Lounge. The Dessert will begin at 7:30 p.m. Reservations are requested. They can be made by calling the U. C. A. office (UN 5-7627).

► **RUSSIA:** The Slavic Club is sponsor of a film titled "Russia: People and Places" which will be shown Tuesday, March 21 at 7:30 p.m. in the HUB ballroom.

The 80-minute film, which was authored by Albert Milgrom, Minneapolis journalist who was a member of the 1959 exchange student project, is a candid look at a typical Russian in his daily work and play.

► **LENTEN:** "The Seven Words of Christ on the Cross," will be given by members of the Meditation Chapel Choirs in the second of two special Lenten-Easter Services in the Helen Eakin Eisenhower Chapel Tuesday, March 21 at 8 p.m.

Dr. Luther H. Harshbarger, University chaplain, is liturgist for the Service and James W. Beach will direct the choir.

The program will also include "Miserere Dei" by Lott; "Ovos omnes" by Victoria; and "The glorious day is here" by Effinger. William Mastrocola is organist and will play compositions by Georg Bohm and by Bach.

URGENT CALLS

Calls for assistance in emergencies will be directed to one of three offices on campus in the future, according to the type of emergency, it was announced today.

For fire or accident, call 110, if using the University exchange, as has been the case in the past.

For urgent requests for assistance by Campus Patrol, call UN 5-5458.

For reporting of physical plant maintenance problems, such as leaking water or gas mains, broken equipment, etc., call UN 5-2596, at any hour of the day or night.

These numbers will be indicated on a new decal soon to replace the stickers on campus phones.

If the UN 5-2596 phone is called during working hours, personnel of the department of maintenance and utilities will take the information; if during other hours, the Campus Patrol will take the call and refer it to the appropriate person.

► **JOURNAL:** The University Press will publish the first volume of the Journal of General Education in April, with Dr. Howard A. Cutler as editor.

The Journal reports the writings and experiences of faculty members at colleges and universities throughout the country interested in general education.

► **TALK:** Scabbard and Blade, military honorary society, is sponsoring a lecture by Dr. Francis Wilcox, dean of the School of International Relations, Johns Hopkins University, and formerly assistant secretary of State for International Organization Affairs, Sunday, March 26, at 8 p.m. in the HUB ballroom.

He will speak on "The United Nations and U. S. Foreign Policy." The following day he will meet with classes in political science.

► **LECTURE:** Dr. Harry Wexler, director of meteorological research, U. S. Weather Bureau, will speak on "Frontiers of Satellite Meteorology," in the Graduate Lecture Series Thursday, Mar. 23, at 8 p.m. in Room 121 Sparks.

► **ARTISTS:** Tickets for the Artists Series program to be given by soprano Victoria de Los Angeles on Friday, March 24, at 8:30 p.m. in Schwab Auditorium will go on sale to the public on Wednesday, March 22, at the HUB desk.

► **BRAZIL:** A special lecture which will be of interest to students and faculty members considering assignments in Brazil will be given Tuesday, Mar. 21 at 7:30 p.m. in Room 124 Sackett by Carleton Sprague Smith, director of the Brazilian Institute of New York University, on "The Challenge of Brazil to the American Student: Opportunities for Undergraduate and Graduate Study in Brazil."

► **COLLOQUY:** "The Academic Community: A Problem in Compromise" will be the subject of the University Christian Association Colloquy tomorrow (Saturday) featuring an address by Dr. Edward Leroy Long, Jr., associate professor of religion, Oberlin College, at the Chapel.

He will speak on "Conscience and Compromise" at the first session, which begins at 1:45 p.m.

A faculty panel consisting of Dean M. A. Williamson, Dr. Robert Scholten, and Dr. Robert Holtzman will discuss the topic, "Decisions of the Teacher, Researcher, and Administrator in the Academic Community."

Dr. Robert Woodtli, research associate in geophysics, had ten years' experience in Congo, knows its problems.

For many years to come

Congo will need help

makers on the continent. In relatively recent years, several U. S. companies, as well as those from other countries, have found it profitable to invest in iron ore mining, which is necessarily carried on close to the shore line because of the limitations of transportation. Phosphate rocks, chromite and manganese are also important economically.

"Mining is of major importance to Africa, especially in the Union of South Africa, the Congo, the Rhodesias, Liberia, French Guinea, Ghana, and Nigeria," Dr. Woodtli explains.

"In the Union of South Africa many of the gold mines are very deep, going to 11,000 feet. Everywhere mechanization has been necessary to make the mines competitive. Of course mechanization changes the character of the labor force, requiring more people for white collar positions and fewer of those who depend on hand skills.

"The Congolese or other native Africans are quite capable of training and many do the white collar jobs on the lower level, but as yet there are few who can take over the upper supervisory positions which, in the case of the Congo, were handled by Belgians or others of the white race.

"Since that is true, it is also true that mining operations will be seriously hindered if all whites are forced to leave, and the result can be nothing but chaos. That is one reason Katanga President Moïse Tshombe resists efforts of those who would drive the Belgians out. And Katanga Province alone provides about 70 per cent of the tax money of the entire country."

Dr. Woodtli left the Congo in late 1959 and as he neared the time of departure he told the Congolese people in the company and his servants that he would not return. There was genuine weeping among them, he reports, because it was clearly indicated that the people could not carry on without their white supervisors.

"It helps a little to make understandable the reluctance of missionaries to leave the Congo or their desire to go back," Dr. Woodtli says. "Seven of our company did go back last fall; I don't know what has happened to them, but I know that the natives helped whites to escape when trouble started."

The people of the Congo who have accepted work in the mining companies and elsewhere prove to be good workers, but lack one important ingredient for assuming vital roles in their industries — responsibility.

"If, for example, a truck driver runs out of gasoline miles from any supply because he failed to fill the tank as he was told to do, he doesn't feel that he has done anything wrong. He hasn't any sense of guilt.

"But they are perfectly capable of learning, and there are no spiritual or racial limitations to the work they do. They have tribal differences and will not mix or intermarry, generally, but such things have no noticeable effect on their work.

"I thought it rather interesting that natives who came to

(Continued on page four)



REGARDLESS of the outcome of the struggle for power now going on in the Congo, outside help will be needed for a generation or more to run the affairs of government, commerce, and industry.

Dr. Robert Woodtli, who can speak with first-hand knowledge of the affairs of the Congo through ten years of work there, says that there aren't enough trained natives to run the country efficiently and it will be many years before there are.

Now visiting research associate in geophysics, Dr. Woodtli worked in the Congo first as field geologist and later as chief geologist of the Kilo-Moto Gold Mining Co., a Belgian concern, from 1949 to 1959. Operations of the company extended over an area almost the size of Pennsylvania and he lived in the Stanleyville region which is much in the news now.

He came to Penn State at the beginning of 1960 and has put his knowledge of Africa to good use. Last year he wrote a book on the "Mineral Resources of Africa," which is being printed now in Switzerland. This semester he is teaching a graduate course in the mineral resources of the continent. The course is being given in French (Dr. Woodtli is Swiss) because much of the literature is in that language and has not been translated; people interested in the geology of Africa must know French.

"We need to know much more about Africa," says Dr. Woodtli, "especially geologically, to aid in the further development of Africa's resources. The dense forests and deserts have restricted geological studies so that we do not know as much as we should about the continent.

"But we can say that Africa as a whole is not wealthy in mineral resources, at least as far as high grade ores are concerned. Moreover, her soil is very poor and unable to grow as much food and support as many cattle as is desirable. The struggle for power now going on is only in a minor way a fight over minerals. However, as reserves are depleted elsewhere in the world, the resources of Africa should become more significant."

Copper, tin, diamonds, and gold are the chief money-

SENATE MINUTES

Minutes of the Meeting of

March 2, 1961

The University Senate met at 4:15 p.m. on Thursday, March 2, 1961 in Room 121 Sparks Building with Vice President L. E. Dennis presiding. The minutes of the February 9, 1961 meeting were approved as printed in the Faculty Bulletin for February 24, 1961. One hundred seventy-seven senators signed the roll.

Communications of University Officials

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: R. D. Ayoub (H. L. Krall), Della Durant (Herberta Lundegren), R. E. Eiche (J. G. Zubrod), D. H. Ford (J. D. Ashby), Mary Fuqua (Lavern Henderson), M. S. Gjesdahl (E. E. Ambrosius), C. F. Hager (R. W. Condee), F. T. Hall, Jr. (E. R. Weidhaas), Irene Harns (Helen Buchanan), A. L. Harnett (F. M. Coombs), F. A. Hummel (W. O. Williamson), J. C. Johnson (A. T. Thompson), E. L. Keller (T. S. Goas), Dorothy J. Lipp (Jane Leiper), Ossian MacKenzie (S. P. Greenlaw), R. E. McDermott (H. H. Chisman), R. C. Miller (T. L. Merritt), A. H. Reede (R. S. Stout), Edna Sommerfeld (Gertrude Nygren), E. P. Strong (W. M. Hench), A. W. VanderMeer (Dale Harris), G. H. Watrous, Jr. (W. T. O'Dell), A. H. Waynick (W. D. O'Connell), and R. H. Wherry (Rocco Carzo, Jr.).

A communication was received from Monroe Newman, Chairman of the Senate Committee on Student Affairs, asking that the Coordinator of Student Activities be made an ex officio, nonvoting member of the Subcommittee on Organization Control, of the Senate Committee on Student Affairs. The chairman stated this would be considered under new business.

The following letter was received from Leon Gorlow:

February 15, 1961

Leon Gorlow

Dr. Robert G. Bernreuter
Secretary of the Senate

At the University Senate meeting on February 9th, Professor Shelley, on behalf of the Senate Committee on Courses of Study, moved the adoption of certain curricular changes. The record of the Senate may show that I rose to inquire whether or not any of the proposed changes related to curricula in the College of the Liberal Arts. Professor Shelley thereupon commented that his motion did not contain any proposals about programs in the College of the Liberal Arts. The motion was carried.

I now have Professor Shelley's letter, a copy of which is attached hereto, where he indicates that there was indeed a proposal in his motion relating to a Liberal Arts curriculum. I appreciate his kindness in writing me for his letter, in a sense, justifies my communication to you and to the Senate.

My intention at the February 9 meeting was to place before the Senate an amendment to the motion to approve the Liberal Arts curriculum in Geography, which would have had the effect, if passed, of permitting students to choose work in Psychology in order to fulfill the general degree requirements in that curriculum.

I understand that Psychology has resisted clear classification and definition by the members of the Senate Course of Study Committee, and that this lack of clarity has

resulted in omitting this area of study from listings of choices which are permitted baccalaureate candidates in the College of the Liberal Arts. Psychology is, however, no different from other disciplines in defying simple non-overlapping classification. Some branches of anthropology, for example, properly belong to the domain of social science, whereas other branches might be classified under the heading of physical or biological science — e.g., anthropometry.

Now there appears to be a good deal of individual and collective sentiment in the College of the Liberal Arts for adding Psychology to the list of disciplines from which students make choices in order to fulfill the College requirements. Moreover, I feel strongly that difficulty in classification should not deny young people the opportunity to study Psychology.

On February 9th, I would have proposed the following motion, and I do so now, if the Senate rules permit:

That psychology be added to the list of disciplines from which the undergraduate student chooses in order to fulfill the social science requirement in all Liberal Arts curricula; that in all published materials, a footnote carry the notation that some branches of psychology may be applicable toward meeting the biological science requirement.

S / Leon Gorlow

The Chairman stated that he felt this matter should come before the faculty of the College of the Liberal Arts and at the direction of the President he proposed to refer the letter to the Dean of the Faculty of the College of the Liberal Arts for consideration by that faculty. Mr. Gorlow said in light of this action he would not make the motion as stated in his letter.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed in two parts. Section one was distributed with the agenda as Appendix "A" and section two was distributed a few days later. In presenting the report Mr. Shelley asked that the following corrections be made.

In Section I, IA, 2, No. 369 (on page 23 of Section I distributed January 27, 1961). Delete Journ 6 from the requirements, and change the nine credits of journalism electives to ten credits of journalism electives.

In Section I, IA, 3, No. 389 (on page 11 of Section II, distributed January 27, 1961). In the Third Term, substitute Psy 2, 3 credits for Elective, 3 credits.

In Section I, IA, 3, No. 390 (on page 12 of Section II, distributed January 27, 1961). In the Fourth Term, delete Psy 2, 3 credits and add elective, 3 credits.

In the Twelfth Term (on page 14 of Section II) delete elective 3 credits, reduce the total credits for Women to 11, for Men to 10.

In Section I, IA, 3, No. 391 (on page 15 of Section II, distributed on January 27, 1961). In the Fourth Term, delete Psy 2, 3 credits, and reduce the total credits for Women to 11, for Men to 11. In the Sixth Term, delete Re Ed 230, 3 credits and add elective, 3 credits.

In Section I, II add

COLLEGE OF THE LIBERAL ARTS

Applied Art

Mr. Shelley stated the changes in proposals numbered 389, 390, and 391 were made in order to reduce the total credits

for graduation. He then moved that Sections I and II, as corrected, be adopted. The motion was seconded and passed. The complete report is on file in the office of the secretary.

New Business

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved that Article II, Section 1 (m) 2 of the By-Laws be modified to include

the Coordinator of Student Activities as an ex officio, nonvoting member of the Subcommittee on Organization Control of the Senate Committee on Student Affairs. This motion will lie on the table for discussion at the next meeting of the Senate.

M. E. John, Vice Chairman of the SENATE COMMITTEE ON CONTINUING EDUCATION POLICY, referred to the action taken by the Senate at its meeting on May 5, 1960 that

1. each College establish a Continuing Education Policy and that the Senate be advised by the Chairman of the Administrative Committee for Continuing Education when this has been done for any College. This should be accomplished prior to May 1, 1961.
2. each College make an annual appraisal and evaluation of its Continuing Education program.

He stated that because of the important adjustments which are involved in inaugurating the Four-Term Program the Committee recommends that

The date approved by the University Senate for establishment by each College of a Continuing Education Policy is hereby changed from "prior to May 1, 1961" to "prior to February 1, 1962."

Mr. John asked that unanimous consent of the Senate be given to act on this recommendation at this time. There being no objection Mr. John moved that the date be changed from "prior to May 1, 1961" to "prior to February 1, 1962." The motion was seconded and passed.

Comments and Recommendations for the Good of the University

Mr. Dennis referred to Mr. Shelley's statement regarding the deletion of credits from some curriculums in order to avoid an overload of credits for the students and stated that President Walker is going to ask the Senate Committee on Educational Policy to study this problem in order to get a statement of policy before the Senate to discuss the matter of a student's load.

E. B. VanOrmer announced that the Graduate School office had just received a list of some 1200 college seniors throughout the country who were among the 2500 applicants considered good enough to be interviewed by regional selection committees for Woodrow Wilson Foundation Fellowships but were given honorable mention rather than being awarded fellowships. He pointed out that this list would be available to any interested department heads who wanted to use it in contacting fairly capable graduate students for 1961-1962. The majority of these students have majors in liberal arts areas while some have been chemistry and physics majors. All of them are students who have expressed a definite interest in preparing for college or university teaching. This list may be obtained from Mrs. Johnson, 106 Willard Building.

The next regular meeting of the Senate will be on April 6, 1961; the agenda will be distributed on March 23, 1961. The meeting adjourned at 4:47 p.m.

D. V. Josephson
Secretary protem

Congo —

(Continued from page two)

the mines directly from the bush had a very high degree of hand skill and ingenuity for improvising or doing things, but after only one generation in 'civilization' these skills were lost and had to be taught to their sons."

The Kilo-Moto Company changed many of its operations a few years ago when its secondary gold deposits ran out and primary deposits were worked. The changeover required mechanization, and it threw many natives out of work. The company gave pensions to the older employees and sent them back to the village. Few want to return to the bush and in fact few younger people want to either. Yet they are not particularly envious of the white man's ways.

"Natives in the mines are better fed, healthier, and have many advantages over those in the bush," Dr. Woodtli says.

The company sets the regulations in the villages housing the workers, but there was organization of government by the natives in some affairs and representation by delegates to the company in others. For example, problems such as

food, wages, and regulations were proper subjects for discussion. Minor crimes were handled by a native tribunal.

"Generally, they respected company regulations and resisted changes in them."

The Belgians had built many schools in the Congo and were attempting to upgrade the natives. Peculiarly, the resistance to education came from the women, who wanted to retain their old ways, although in many regions their husbands wanted them to be educated. The Belgians hoped that more children would want to be educated if their mothers were.

"Until more advanced schools can be built and the people accept them, it will be impossible to obtain the advanced white collar supervisory force industry and commerce need so badly.

"I feel that for the last 8 months the Congo has been a football between East and West. Two years ago there was no talk of Communism in the area and I don't think that even now the natives know anything about the ideological differences between East and West.

"They want more than anything to be left alone, but they need help, too. I hope the aid they get is of their own choice, not that of outsiders."

Calendar —

(Continued from page one)

College of Education faculty meeting, 4:15 p.m., HUB assembly room.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. M. R. Lynch, assistant professor of agricultural extension, on "People and Pictures."

Tuesday, March 21

Geophysics Seminar, 3:15 p.m., Room 121 Mineral Industries, H. D. Ackermann, on "Seismic Prospecting for Small Structures."

Slavic Club showing of film, "Russia: People and Places," 7:30 p.m., HUB ballroom.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Holiday Spirit," by Royal Brown, directed by Michael Goff.

Film Series, "Talking Sense," 4:30 p.m., Schwab Auditorium. (Engineering III lecture.)

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Eugene M. Bernstein, department of physics, University of Wisconsin, on "Comparison of Inelastic Scattering from SM 152 with Coulomb Excitation Theory."

Academic Year Science Institute lecture, 4:15 p.m., Room 111 Boucke. Dr. David J. Rogers, curator of economic botany, The New York Botanical Gardens, on "Economic Botany."

Lenten Service, 8 p.m., Helen Eakin Eisenhower Chapel. Meditation Chapel Choirs in "The Seven Words of Christ on the Cross" and anthems. Dr. Luther Harshbarger liturgist.

Talk by Carleton Sprague Smith, director of the Brazilian Institute at New York University, on "The Challenge of Brazil to the American Student: Opportunities for Undergraduate and Graduate Study in Brazil," 7:30 p.m., Room 124 Sackett, sponsored by the department of Romance Languages; also 20-minute film on Brasilia.

Wednesday, March 22

Psychology Colloquium, 8 p.m., Room 112 Buckhout. Dr. Samuel Messick, research psychologist, Educational Testing Service, on "Multidimensional Scaling in School Psychological Research."

Chess Club meeting, 7 p.m., HUB card room.

French film, "Senechal le magnifique."

8 p.m., Room 209 Home Economics South, sponsored by the NDEA French Institute. English subtitles.

Thursday, March 23

Biological Science Lecture Series, 4:15 p.m., Room 112 Buckhout. Dr. W. D. McElroy, chairman of the biology department and director of McCollum-Pratt Institute, Johns Hopkins University, Baltimore, Md., on "The Physiology of Luminescent Organisms."

Graduate School Lecture by Dr. Harry Wexler, U. S. Weather Bureau, 8 p.m., Room 121 Sparks, on "Frontiers of Satellite Meteorology."

Lecture by Dr. Henry G. Bugbee, professor of philosophy, Montana State University, 4:15 p.m., Room 12 Sparks, on "Thoughts on Creativity."

English Colloquium, 7:30 p.m., Nittany Lion Inn. William York Tindall on Dylan Thomas.

Friday, March 24

Artists Series program by Victoria de Los Angeles, soprano, 8:30 p.m., Schwab Auditorium.

faculty BULLETIN

Vol. 48, No. 33 March 17, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Stone Valley

REGULATIONS regarding fishing and boating at Stone Valley Recreation Area developed by the University in Huntingdon County have been announced.

Fishing and boating will be initiated this year but swimming will not be permitted because adequate facilities have not been developed as yet.

The rainbow trout fishing season will begin April 15. The regulations of the Commonwealth regarding rainbow trout will be followed at Stone Valley, not only regarding season but also limit and size of fish permitted. Bass and bluegills may be taken any time of the year, in any quantity, and in any size, however.

Fishing from the shore and from boats will be permitted.

Fees for parking, camping, use of boats and canoes and launching and mooring of privately-owned boats, have been announced also. The charges are necessary, it is explained, because the entire project is self-supporting. The fees are as follows:

Parking, per car — 50 cents for non-students; 25 cents for students, regardless of number of passengers.

Rental of boats — for non-students 75 cents for the first hour, 35 cents for each succeeding hour, and \$2.50 per day; for students, 50 cents for the first hour, 35 cents for succeeding hours, and \$2.50 per day. Hours of rental — 8 a.m. to 9 p.m.

Launching and mooring of private boats (unpowered only) — \$1 per day for students, faculty and alumni; for all others, \$2 per day. For the

(Continued on page three)

NEWS IN BRIEF

➤ **ARTISTS:** Victoria de Los Angeles, soprano, will be featured on the Artists Series this evening (Friday) at 8:30 p.m. in Schwab Auditorium.

The program will be varied, including works by Brahms, Schubert, Handel, Scarlatti, Sacconi, Rossini, Joaquin Nin, Guridi, de Falla, and Turina. The Rossini work is "Una voce poco fa." from The Barber of Seville.

On Sunday, April 9, the National Ballet of Canada will perform in Recreation Building, at 8 p.m. Tickets for this program will be on sale to the public April 6-9 at the HUB desk.

➤ **BLUE BAND:** The 107-member Penn State Concert Blue Band will present its annual concert Sunday, Mar. 26, at 3 p.m. in Schwab Auditorium, with Philip Farkas, on the French horn, as guest soloist.

Farkas has played principal horn with the Kansas City Philharmonic, Boston Symphony, Cleveland Symphony, and the Chicago Symphony. He is professor of music at Indiana University and has taught at DePaul, Roosevelt, and Northwestern Universities.

James W. Dunlop, professor of music education, directs the Band, which is composed of 69 men and 38 women students.

Farkas will conduct a clinic Saturday, Mar. 25 at 2 p.m. in Room 117 Carnegie, to which the public is invited.

➤ **SCHEDULES:** The Spring sports schedule of the University begins April 5 and the first contest at home is the baseball game between Villanova and Penn State Saturday, April 8, at 2:30 p.m.

Faculty and staff members who wish a printed schedule of all athletic events listed for the spring semester may obtain a copy at the Athletic Association Office, 249 Recreation Building.

➤ **SENATE:** The University Senate will meet Thursday, April 6 at 4:15 p.m. in Room 121 Sparks.

➤ **CONSTITUTION:** Dr. Thomas Alpheus Mason, currently McCormick professor of Jurisprudence, Princeton University, will speak on "Constitutional Limitations in a World of Continuing Crisis" on the Political Science Seminar program today (Friday) at 8 p.m. in the main lounge of McElwain Hall. Dr. Mason is an authoritative interpreter of the American historical and political scene.

➤ **FORUM:** The Rev. James Robinson, founder and director of the op-

eration "Crossroads Africa" and minister of the Church of the Master, New York City, will speak at a University Christian Association Forum Friday, April 7, at 7:30 p.m. in Room 121 Sparks.

The talk is open to students, faculty, and the public. "Crossroads Africa" is the program under which many young people have aided communities on the African continent in a variety of improvement projects.

➤ **SCHOLARSHIP:** A scholarship to be known as the Kathryn S. Wade Scholarship has been established by provisions in the will of the late Mrs. Wade who was known to hundreds of students and faculty in agriculture as Ag Librarian from 1918 to 1935.

The will provided a grant of \$3,000 to the University, \$300 of which may be made available each year to provide one or more scholarships. The first winner is Donald P. Kinnan, sophomore in general agriculture.

➤ **EXHIBIT:** Senior students in landscape architecture will unveil their plan for the redevelopment of central campus at a special ceremony Sunday, Mar. 26 in the main lounge of the Hetzel Union Building. A 15-foot model of the plan will go on display after the presentation, which will take place at 3 p.m. Students will explain the overall plan and details.

➤ **CHESS:** An international grandmaster in chess, William Lombardy, of New York, N. Y., will compete with local chess players in a simultaneous chess exhibition at 2:30 p.m. Sunday, Mar. 26, in the Waring Hall lounge.

Only members of the U. S. Chess Federation will be permitted to compete with Lombardy, but memberships will be available at the exhibition. An entrance fee of \$2 will be charged to competitors, except for Chess Club members, who will be charged \$1.50. The Club is co-sponsor of the exhibition, along with the West Halls Council.

➤ **EFFICIENCY:** Consolidation of the University's departments of housing and food service was announced this week, with Stanley H. Campbell as director and Otto E. Mueller and Robert C. Proffitt as associate directors in charge of the divisions of housing and food services respectively.

The move was made in the interest of increased effectiveness and efficiency, A. E. Diem, vice-president for business, said, since the two departments have many common operations, occupy the same buildings, and have

(Continued on page two)

Journal of general education

EARLY in April the University Press will mail its first issue of the JOURNAL OF GENERAL EDUCATION to twelve hundred subscribers throughout the world, thus signaling the transfer of this, the first and most substantial journal in its field from the University of Chicago Press to The Pennsylvania State University Press.

The new managing editor of the Journal will be Dr. Howard A. Cutler, Director of the General Education program at Penn State. Also from Penn State two new members have been added to the Editorial Board: Lawrence E. Dennis and Paul M. Alt-house. The remaining members of the Board are: R. F. Arragon, Reuben Frodin, S. Stewart Gordon, Knox Hill, Earl J. McGrath, Henry W. Sams, Joseph Schwab, Milton Singer, R. E. Streeter, Russell Thomas, Hoyt Trowbridge, Ralph W. Tyler, and F. Champion Ward.

The decision by the University Press to take over publication of the Journal involved much discussion of general education itself and of the question whether a journal specifically devoted to this often ill-defined and misunderstood field is really necessary. Some of the conclusions discussed in the editorial of the forthcoming issue are:

Even more than in 1946, when the *Journal* was founded, the concepts implicit in the phrase *general educa-*

tion are pertinent today, for the intervening years have widened the gap between our knowledge and our understanding.

Special knowledge increases exponentially, and every day communication between specialties becomes more difficult. The student in symbolic logic finds himself estranged from colleagues in topology. The institutional economist is tongue-tied when he meets econometricians. And each is compelled to press on along his special path by irresistible intellectual pressures.

And as the Tower of Babel grows taller, the world grows smaller beneath. The necessity for each human being to talk, to listen, and to understand grows ever more intense.

"General education" is a presumptuous phrase. It takes for granted what no man can really do. But however arrogant the presumption, general education is not a matter that we are free to choose or to neglect. It is there, inescapably, in the condition of being men. There is no escape from trying for it. The only debate that can be must be between this way and that way of comprehending it more or less well.

The Journal of General Education is devoted to the interests of the specialist away from home — the economist faced with a poem, or the

mathematician whose friends in chemistry don't understand him.

It is devoted to the purpose of converting differences into arguments — the differences, for example, between biochemistry and physics into the kind of argument that makes biophysics.

It is devoted to clarifying, or mitigating, the bewilderments of the educational managers — the deans, department heads, and presidents — who want to make constructive sense of what always may be, and sometimes is, the simple head-on conflict of special interests.

It is devoted to whatever is elementary and fundamental in higher education, the twilight zone of the freshman-sophomore years in which university faculties sometimes decide that it is unprofessional to be professional.

It is devoted, finally, to the maverick — the man who for the moment doesn't quite fit into any of the going academic categories or academic journals, and who often has useful things to say.

If in this country higher education is "departmentally" organized — as indeed it appears to be — then one of its critical dangers is that at any particular moment its established partitions may prove arbitrary or confining, as on any other they are liberating and just. It is not the purpose of the *Journal* to make war on departmentalism, but to provide an extra-departmental platform from which all academic distinctions and definitions may be fairly and accurately reviewed.

News —

(Continued from page one)

similar organizational problems. The added efficiency is a step to hold down the students' costs, he pointed out.

► **LIBRARY:** A collection of 100 volumes pertaining to Portuguese colonialism has been given to the Pattee Library by Dr. Joao J. Gonsalves, director of the Center of Overseas Studies, in Lisbon. The gift resulted from a request by Dr. Gerald M. Moser, associate professor of Romance languages.

The collection will be of special interest to political scientists, historians, economists, and geographers. Most of the books are in the Portuguese language, and most were published since 1936.

► **CHANGES:** Telephone numbers of many personnel in the departments physical plant planning and construction and of maintenance and utilities have been changed.

The number of supervisory personnel in the department of physical plant planning and construction, including that of the director Walter H. Wiegand, has been changed to UN 5-7605. Others at this number include John D. Miller and David L. Wright.

Included in the new number UN 5-5469 are Walter W. Trainer, Paul W. Pierson, and Norwood A. Hedden.

Among those on the new number UN 5-2593 are Henry L. Yeagley, director of maintenance and utilities, and Charles A. Lamm.

► **PATTEE:** Pattee Library will observe the following hours during the Easter Recess:

Wed., Mar. 29 — 7:50 a.m. to 5 p.m.
Thurs., Mar. 30 — 9 a.m. to 5 p.m.
Fri., Mar. 31 — 9 a.m. to 5 p.m.
Sat., April 1 — 9 a.m. to 12 noon
Sun., April 2 — Closed
Mon., April 3 — 9 a.m. to 5 p.m.
Tues., April 4 — 9 a.m. to 5 p.m.
Wed., April 5 — 9 a.m. to 10 p.m.

► **HONORED:** Dr. Hazel M. Hatcher, a graduate of the University of Missouri, is being honored by her alma mater today by receiving Special Recognition "for her contributions to the field of home economics." The recognition is being given at the dedication of the new addition to the School of Home Economics.

Dr. Hatcher, who obtained her doctor's degree from the University of Minnesota, was honored by that institution as Distinguished Alumna in 1952.

► **FELLOWSHIPS:** Three Penn State seniors and three graduates of the University are among the 1,333 recipients of Woodrow Wilson Fellowships for 1961-62.

They are Elizabeth Dowling, physics; John E. Puhalla, botany and plant pathology; Richard W. Zdarko, physics; and graduates Arthur B. Stein, international relations, George S. Wills, political science; and Karen E. Shallcross, political science.

Stone valley —

(Continued from page one)

season (April 15 to Oct. 5), \$10 for students, \$20 for faculty and alumni, and \$30 for others. (No powered boats will be permitted on the lake.)

Rental of cottages — \$25 per week.

There are 11 cottages at the Mineral Industries camp on the south side of the lake. They will sleep 2-6 people, depending on the arrangements of the facilities. Occupants must provide their own linens. Central bath and toilet facilities are nearby as is the water supply. Electricity, a refrigerator, and a hotplate will be furnished. Application for these cottages must be made to the office of Dean E. B. McCoy, 250 Recreation Building. Preference will be given to faculty and staff members, alumni, married students and the public, in that order.

It is hoped that three floating docks will be developed for fishing during the 1961 season and also some picnic areas with outdoor charcoal fireplaces.

A primary consideration in the management of the area, it is explained, is the limitation of the numbers of visitors so that overcrowding in the area will be prevented.

Gray on television

Dr. William H. Gray, professor of Latin-American history and director of International Student Affairs, is currently being featured in the television program "University of the Air" produced by Triangle Publications, Inc., for its stations in Philadelphia, Altoona, Binghamton, N. Y., Lebanon, Pa., New Haven, Conn., and Fresno, Cal.

The title of Dr. Gray's segment of the program is "Latin America: Continent in Crisis."

WFBG-TV, Altoona, carries the program Saturday morning and initiated the series March 11. Until April 8, Dr. Gray will be shown from 8:20 to 8:40 a.m. From April 15 until the conclusion of the series on July 1 he will be seen from 7:50 until 8:10 a.m.

Dr. Gray's series, which was filmed at the WFBG studios in Altoona, is a popular interpretation of Latin America, concerned with current problems as well as past history. He developed many visual aids for the 17 lectures which make up the series.

The lectures are outlined in four general subjects: Political Crisis in

the Caribbean; Social Conditions as a Cause of Crisis; Economic Inequality as a Cause of Crisis; and What of the Future?

Some of the material in the series is from Dr. Gray's history classes but largely the lectures are directed to a general adult population. In his view the series is a service to the general education program of the State.

Other colleges participating in this year's series include Villanova, Penn. Temple, Drexel, Ursinus, Swarthmore, Penn Military, Philadelphia College of Pharmacy and Science, St. Joseph's, and Glassboro State College.

Cutler appointment

Dr. Howard A. Cutler, assistant to the vice-president for academic affairs since 1958, has been appointed assistant to the President for Academic Affairs, continuing until further notice.



Dr. Cutler

Dr. Cutler will share with others the responsibilities borne by L. E. Dennis, who has been granted a six-month leave to accept an executive post with the Peace Corps. He will also continue some of his previous duties as assistant to the vice-president.

A member of the staff since 1951, Dr. Cutler came to the University as assistant professor of economics, after serving on the faculty at the University of Illinois.

Evaluation

A committee consisting of the President, the Assistant to the President for Academic Affairs, the Vice President for Research, and the Dean of the Graduate School, has been created to advance the present program of departmental evaluations.

The dean of the College in which a department or division is being evaluated will be an ad hoc member of the committee.

A series of evaluations will proceed quickly to serve as groundwork for an institutional self-study in 1965.

Dr. M. Nelson McGeary, professor of political science, will serve as secretary of the Standing Committee and will be responsible for all planning, arrangements, and operations of the visiting teams.

These evaluations will follow the pattern of previous evaluations in philosophy, English, and mathematics.

Items of interest

Lectures and Talks

ANDREWS, FRANCES M., music education, conducted two curriculum workshops for grades 1 to 9, at Bel Air, Md.

BENSON, A. A., ag biochem, at a hearing of the Atomic Energy Commission, Mar. 29, in Washington, D. C., on "Application of Radio-Isotopes and Radiation in the Life Sciences."

FLETCHER, P. W., and BYRNES, W. R., forestry, and MATELSKI, R. P., soil technology, talks at the annual cooperative Forest Management Training Conference for personnel of the Pennsylvania Department of Forests and Waters.

HEIDE, EUGENE, New Kensington, a talk on "Your Community College," at the Victoria Junior High P. T. A., Arnold, Pa.

— panel moderator for the program "You and Your School Board" at the New Kensington P. T. A. Council.

MARIN, JOSEPH, engineering mechanics, a series of lectures on various aspects of solid state mechanics to a group of engineers and scientists at Battelle Memorial Institute, during the next few months.

NEUBERGER, HANS, meteorology, lectures at Juniata College, in American Meteorological Society program. Also at Lebanon Valley College.

THOMPSON, S. E., hotel and institution administration, two lectures concerned with the purchasing agent in hospitals and one on communication at the five-day Institute on Hospital Purchasing at Pittsburgh. — talks on the principles of executive leadership and on increased production for food service workers at the National Restaurant Association Executive Development program, at Salt Lake City.

Books

PEARSON, D. S., electrical engineering, the fourth edition of the book, "Creativeness for Engineers, A Philosophy and a Practice."

GRANTS IN AID

APPLICATIONS for grants-in-aid for research from the Administrative Committee on Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. E. F. Osborn, Vice President for Research.

Applications should be filed with the dean of the college, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$300. In a few instances grants are made for larger sums to meet special needs.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

CALENDAR

Friday, March 24

Artists Series program by soprano Victoria de Los Angeles. 8:30 p.m., Schwab Auditorium.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. H. Kedesday, U. S. Army Signal Research and Development Laboratory, Fort Monmouth, N. J., on "Crystal Growth from the Melt and from Aqueous Solutions."

Political Science Seminar, 8 p.m., main lounge, McElwain Hall. Dr. Thomas Alpheus Mason, Princeton University, on "Constitutional Limitations in a World of Continuing Crisis."

Saturday, March 25

Graduate Student Association Square Dance, HUB ballroom.

University Christian Association Forum, 8 p.m., The Chapel. Dr. Samuel Proctor, president, North Carolina A. and T. College.

Sunday, March 26

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Samuel Proctor, president, North Carolina A. and T. College.

Penn State Concert Blue Band concert, 3 p.m., Schwab Auditorium.

Chess exhibition by William Lombardy, international grand master, 2:30 p.m., Waring Hall lounge.

Graduate Student Association social bridge, 7:30 p.m., Rooms 212-213, Hetzel Union Building. For graduate students and faculty members.

Talk by Dr. Francis Wilcox, former assistant Secretary of State for International Organizational Affairs, on "The United Nations and U. S. Foreign Policy," 8 p.m. HUB ballroom. Sponsored by Scabbard and Blade.

Exhibit of landscape architecture students' proposals for redevelopment of central campus, 3 p.m., main lounge, Hetzel Union Building.

Monday, March 27

Faculty Luncheon Club, 12 noon, dining rooms A and B, Hetzel Union Building. President Eric A. Walker, on "The National Science Foundation and the Universities." Tickets at HUB desk.

College of Physical Education and Athletics faculty meeting, 7 p.m., Recreation Room, White Building.

Tuesday, March 28

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. George Heitman, instructor in economics, on "Some Locational Considerations in the Analysis of the Pennsylvania Shoe Industry."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. E. de St. Q. Isaacson, consulting engineer, Kolar Gold Field, Bombay, India, on "Stress Changes Around Underground Openings."

Film, "Talking Sense," 4:30 p.m., Schwab Auditorium. (Engineering III lecture.)

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. Russell E. Larson, head of the horticulture department, in "Contrast in Modern Day Mexico."

Geophysics Seminar, 3:15 p.m., Room 121 Mineral Industries. W. G. Deusser, on "Rb-Sr Ages of Blue Ridge and Piedmont."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. J. G. Powles, physics department, Queen Mary College, London, on "Nuclear Magnetic Resonance."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "The Rocking Chair," by James Desmond, directed by Roger Lowenthal.

Wednesday, March 29

Easter recess begins, 11:50 a.m., ends Wednesday, April 5, 12:15 p.m.

Friday, March 31

Geophysical Seminar, 4:15 p.m., Room 121 Mineral Industries. W. F. Brace, Massachusetts Institute of Technology, on "Theory of Fracture of Rocks."

Wednesday, April 5

Easter recess ends, 12:15 p.m.

French movie, "La beauté du diable," sponsored by the NDEA French Institute, 8 p.m., Room 209 Home Economics South. Admission free; English subtitles.

Thursday, April 6

Senate meeting, 4:15 p.m., Room 121 Sparks.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. S. N. Flengas, department of chemistry, University of Toronto, on "Activities in Fused Salts."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Walter Royall, on "Addison and Opera."

OVERSEAS

Faculty and staff members who have served overseas in any capacity such that they feel competent to talk on the area to students or community organizations are asked to get in touch with the Office of International Affairs, 108 Willard, 5-6752. Such assistance may be especially valuable in relation to Peace Corps programs.

MAILING LIST

The mailing list of the Faculty Bulletin undergoes constant study and re-evaluation. In addition to members of the faculty, nearly 700 University staff members receive the Bulletin at the present time.

With the aid of personnel representatives of the several colleges and non-academic areas, a general policy has been developed to establish a consistent method of determining who among non-academic personnel shall be eligible to receive the Bulletin regularly.

In addition to members of the faculty, staff members who are classed as administrative, executive, and professional will be entitled to receive the publication.

Staff members listed as clerical, supervisory, and semiprofessional will receive the Bulletin, however, only if in the judgment of the personnel representative the Bulletin is necessary to the employee's prosecution of his job. In these cases, a specific request must be made by the personnel representative to the Department of Public Information.

Within a couple of weeks those persons who now receive the Faculty Bulletin and who do not qualify under the revised policy will be removed from the mailing list.

Staff members who do qualify under this policy and are not now getting the publication should address their requests to Faculty Bulletin, 309 Old Main.

NO ISSUE

There will be no issue of the *Faculty Bulletin* next week, Mar. 31, because of the Easter recess. The next issue will appear April 7.

faculty BULLETIN

Vol. 48, No. 34 March 24, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Mail service

Campus Mail Service has undertaken a number of steps recently to speed delivery of mail which is incompletely addressed to University faculty and staff members.

The Mail Service is also instituting a program to aid faculty and staff members to inform their correspondents of their complete address to help reduce delivery delays.

The problem arises when correspondents fail to use the name of the building in addressing mail to faculty and staff members and to students. Mail which does not include the building name is first routed to Old Main by the U. S. Post Office, which is not permitted by postal regulations to directize mail.

U. S. mail is delivered directly to the addressee's building when the address contains the name of the building.

"All of the mail which is incompletely addressed must be directorized by our own staff," says John W. Crump, in charge of Campus Mail Service, "or, in case of some student mail, by the Housing Division. It must then be rerouted to its proper destination. Obviously this procedure takes time.

"The delay would be eliminated completely if correspondents used the building name in the address because the U. S. postmen would deliver the mail to the proper building in the first place."

To aid in the program, Crump requests the faculty and staff members
(Continued on page four)

NEWS IN BRIEF

► **PRIESTLEY:** Dr. Farrington Daniels, professor emeritus of chemistry, University of Wisconsin, will deliver the Priestley Lecture Series next week on the general topic, "Selected Applications of Chemical Kinetics."

The lectures will be held at 8 p.m. in Room 119 Osmond, with the exception of the Thursday lecture, which will be held at 4:30 p.m. The opening lecture, on April 10, is titled "Using the Sun's Energy." The remainder of the Series is as follows: April 11, "Chemical Kinetics and the Prediction of Reaction Rates"; April 12, "Photochemistry and Photosynthesis"; April 13, "Geochemical Problems"; and April 14, "Thermoluminescence of Crystals."

► **CHORAL:** The State College Choral Society, directed by Raymond Brown, associate professor of music, will present Bach's B-Minor Mass Sunday, April 16, at 8 p.m. in the State College High School Auditorium on Westerly Parkway. In addition to a chorus of 80-voices, a full orchestra, which will include instrumentalists from many noted musical organizations, will accompany.

► **TRUTH:** A special joint Philosophy and Mathematics Colloquium Thursday, April 13, at 4 p.m. in Room 12 Sparks will hear an address by Dr. Hugues LeBlanc, professor of philosophy at Bryn Mawr College, on "Truth and Estimated Truth."

Dr. LeBlanc is author of "Introduction to Deductive Logic" and of many essays in philosophical journals, including a recent monograph, "On Chances and Estimated Chances of Being True."

► **ASSIGNMENTS:** During the absence of L. E. Dennis, vice-president for academic affairs, for duties with the Peace Corps, Dr. C. R. Carpenter, director of the division of academic research and services, will represent the President on all committees and projects concerned with television and radio.

Other assignments include: Dr. R. B. Dickerson, associate dean in the College of Agriculture, to serve as chairman of the Administrative Committee on Resident Education Procedures; and Dr. Ben Euwema, dean of the College of the Liberal Arts, to serve as chairman of the policy committee for the Center for Continuing Liberal Education.

To free Dr. Howard A. Cutler to give full time to his duties as assistant to the President for Academic Affairs, Dr. Paul Althouse, assistant director

of resident instruction in the College of Agriculture, is now acting director of General Education.

► **ARTISTS:** The National Ballet of Canada will present "Coppelia," subtitled "The Girl with the Enamel Eyes," on the Artists Series Sunday, April 9, at 8 p.m. in Recreation Building.

Tickets will remain on sale at the HUB desk until Sunday for the program.

"Coppelia," which will star Ann Neville in the title role, was first performed in 1870. It tells the story of a beautiful girl who in reality is a doll and of Frantz, who falls in love with her. Other feature roles are performed by Grant Strate, Sylvia Mason, and Colin Worth.

Celia Franca directs the company, which is now in its tenth season and has won wide acclaim both in Canada and the United States.

► **OUTSTANDING:** Dr. Clara E. Cockerille, professor of education, Westminster College, will be cited as the Penn State Woman of the Year at alumni reunion exercises June 17. She will be the fourth woman to be so honored.

Dr. Cockerille has devoted her entire life to education, serving as teacher and administrator in Altoona Schools, as assistant superintendent of Armstrong county schools and has taught session and extension classes for Penn State and also summer school at Indiana State College and West Virginia University.

► **HOME ECONOMICS:** Dr. David R. Mace, executive director, American Association of Marriage Counselors, will be the keynote speaker for the Dedication Conference of the College of Home Economics on April 21.

Theme of the two-day conference is "Families in the Next 50 Years and Implications for Higher Education."

The first day of the Conference will be devoted to predictions for family life in the coming 50 years, and the second day implications of the predictions for higher education will be discussed in a colloquium.

► **FELLOWSHIPS:** Ten graduate students and three seniors have been awarded Cooperative Graduate Fellowships by the National Science Foundation for graduate study in 1961-62. They will each receive \$2200 per year and the Foundation will also pay their tuition.

Three of the recipients are being
(Continued on page two)

Weigh year-round operation

MANY colleges and universities, both public and private, are pondering year-round operation during the current decade.

This was clearly in evidence at a recent meeting of the Association for Higher Education in Chicago and at a workshop-type conference at the University of Pittsburgh.

At both meetings, representatives of Penn State (Dr. C. O. Williams, assistant to the president for special services) and Pitt were closely questioned, not necessarily for the purpose of comparing the four-term plan with the trimester system but more importantly to learn how the change-overs were made and the philosophy underlying each.

Few institutions have taken positive steps to effect a changeover to year-round operation, Dr. Williams says, and none is ready to say that by 1962 it will have a plan in effect, but many are seriously considering the step.

"Most colleges thinking about the change are only in the initial stages of planning, and they apparently have not felt the pressure for admission we are already experiencing," he explains.

"However, many schools are feeling economic pressures and are looking for ways to reduce the 'unit costs' of their physical plants."

Public, including municipal, colleges and universities will undoubtedly be the leaders in the changeover to full-year operation, discussions at the meetings indicated. Private schools apparently feel less need to operate at full capacity in the summer, or perhaps doubt that they will have enough students to justify a full program.

One or two colleges have already announced a "trimester" operation but are in reality simply developing a summer session program to add to their semester plan.

The University of Florida, Dr. Williams says, has made some progress toward a changeover and it seems likely that other institutions in the Florida system of public higher education (which includes several junior colleges and two other universities) will ultimately go to year-round operation.

Although generally the reasons given at the meetings for favoring year-round operation are very complex, in most cases the importance of rising costs is emphasized.

"A genuine concern was expressed for planning to meet the rush of eli-

gible students," Dr. Williams says, "particularly among the public institutions, and all are deeply concerned with the need to keep educational costs to a minimum. Better utilization of the physical plant is indicated in most cases."

"A second step discussed frequently concerned the use of facilities for evening classes."

In the Commonwealth, the State Colleges already have taken steps to follow Pitt and Penn State in planning for year-round operation. The University of Pennsylvania will operate with fall and winter semesters and two six-week sessions in the summer.

Each of the State Colleges is free to develop its calendar as it wishes; California and Slippery Rock may use the trimester system and other colleges, Shippensburg among them, have indicated they will use a four-term plan.

"Cooperation between the State Colleges and the University in these programs might have great benefits for students in education, particularly on the graduate level," Dr. Williams says.

In Dr. Williams' view, pressure from the public will have a significant

effect on adoption of a year-round plan, presumably through legislatures and municipal bodies in the case of public institutions. Many administrators, he feels, are anticipating this pressure and are beginning their planning now. In other instances, the pressure to change will come indirectly.

"Rising tuition rates may force some schools to take a more careful look at their operating costs when they have to compete for students with schools on year-round calendars," he says.

"By increasing operating efficiencies, also, some schools may be able to improve their programs without a drastic increase in cost."

"In any case, it was generally agreed at both meetings that year-round operation is inevitable for most colleges and universities. There seems to be no overriding wish to be bound by tradition insofar as physical facilities are concerned."

Medical schools are represented as strongly favoring the acceleration implicit in year-round operation because of the reduction it will bring in the total cost of education for the medical profession. The problem is especially acute, it is felt, in that many otherwise qualified candidates are turning their backs on medicine because they do not have the money to delay their start as wage earners.

In all the questions and discussions at the recent meetings, Penn State's Four-Term Plan stood up well among the participants, Dr. Williams reports.

News —

(Continued from page one)

granted fellowships for the second year and a fourth for the third time.

The Graduate School Office has also announced that eight graduate students who are now or who have been for one year graduate teaching assistants have been awarded NSF Summer Fellowships. These fellowships pay recipients a stipend of from \$50 to \$75 weekly for 10 to 12 weeks, with tuition paid by the Foundation.

► **ALUMNI:** The faculty for the 1961 Spring Alumni College April 13-15 will include John Crowe Ransom, poet, who will be the keynote speaker. About 40 graduates of the University are expected to enroll for the program, which is sponsored jointly by the Alumni Association and the Center for Continuing Education.

Faculty members who will participate include:

John S. Barth, assistant professor of English composition, on "The Novelist and the Novel."

Dr. Harrison T. Meserole, instruc-

tor in English, on "The Composer and the Music."

Edwin W. Zoller, professor emeritus of art, on "The Painter and the Painting."

Dr. Deborah Austin, assistant professor of English literature, on "The Poet and the Poem."

A. William Hajjar, professor of architecture, on "The Architect and the Building."

► **MEETING:** Dr. Richard F. Schier, deputy superintendent of the Pennsylvania Department of Public Instruction, will address the faculty of the College of the Liberal Arts, Tuesday, April 11 at 4:15 p.m., in Room 121 Sparks.

He will speak on "Report of the Governor's Committee on Education."

The faculty of the College will also meet Thursday, April 13 at 4:15 p.m. in Room 10 Sparks.

► **OPEN HOUSES:** The Colleges of Mineral Industries, Chemistry and Physics, and Agriculture are conducting open house programs today for Pennsylvania high school students.

Items of interest

Honors and Awards

GROSS, E. A., physical education, one of five chosen for the 1960 Honor Award of the Pennsylvania State Association of Health, Physical Education and Recreation.

Publications

HEXNER, E. P., business administration, a book, "Structure of the International Monetary Fund," published by Vittorio Klostermann, Frankfurt, Germany.

RIEMER, NEAL, political science, "A Modern Democratic Theory for America," published by the Institute of Public Administration of the University in December.

SNYDER, W. U., Psychology Clinic, the book, "The Psychotherapy Relationship," published recently by The MacMillan Co.

Lectures and Talks

ANDREWS, FRANCES M., music education, a talk on "Music in General Education" at the Virginia State Teachers College.

BLACKADAR, A. K., meteorology, a talk on "Artificial Earth Satellites and their Meteorological Uses" at Grove City College, March 21.

CEIGA, GEORGE, music, a lecture-recital for the music department of the Penn State Dames on the symbolism of Bach's music in the Chorale-Preludes of the Orgel-buechlein.

FINCH, H. A., philosophy, a talk, "Why We Laugh and Cry" to the faculty and student body of Perkiomen School, and also to the Graduate Home Economics Club.

GJESDAHL, M. S., mechanical engineering, a talk before the Clinton County Engineering Society on "Creative Engineering and Opportunities in Mechanical Engineering," and on "Creative Techniques in Engineering" at the Wyomissing Center.

HARRIS, D. B., psychology, talk before the Boalsburg and Harris Twp. P. T. A. on "Discipline and Delinquency."

HEIDE, EUGENE, New Kensington, moderator of panel discussion at Lower Burrell P. T. A. on the subject, "101 Questions On Public Education."

HEXNER, E. P., business administration, a seminar on "Recent Issues in International Monetary Affairs" at Harvard University Graduate School March 20; also on "Exchange Rate Policies" at the Fletcher School of Law and Diplomacy, Tufts University.

JOHNSTONE, H. W., JR., philosophy, now guest lecturer at Trinity College, Dublin, two lectures on "Mirrors of the American Mind," titled "Josiah Royce: Philosopher of Purpose" and "John Dewey: Philosopher of Enquiry."

MARIN, JOSEPH, engineering mechanics, a lecture on "Material Design for Damping" to engineers at the Development Laboratories of International Business Machines Corp. at Endicott, N. Y.

NIEBEL, B. W., industrial engineering, an illustrated talk on the use of a random activity analysis camera for making work sampling studies at a meeting of the Pittsburgh chapter of the American Institute of Industrial Engineers.

PENDERED, N. C., industrial arts education, an address before the industrial arts teachers in Allentown on "Upgrading the Industrial Arts Program."

QUIGGLE, DOROTHY, chemical engineering, a talk on "Petroleum — A Catalyst for Progress," at the Sigma Delta Epsilon convention in New York City.

RIEMER, NEAL, a talk before the Altrusa Club, Reading, on "United Nations and the Future of the Congo."

SAUER, J. A., physics, visiting lecturer at St. John's University, Collegeville, Minn., April 12 and 13, under auspices of the American Association of Physics Teachers and the American Institute of Physics.

VAN DOMMELEN, D. B., housing and home art, a talk on "Contemporary Wall Hangings" at the Tyler Art School, Philadelphia.

Articles and Papers

ALBINSKI, H. S., political science, an article, "Australia's Defense Enigma," in *Orbis*, quarterly Journal of World Affairs.

ASQUITH, DEAN, entomology, a paper "Control of Insects and Mites — An Investment for Profit" in the *Pennsylvania Fruit News*, Jan.-Feb., 1961.

At meetings of the American Chemical Society at St. Louis, papers by Aston, J. G.; Currie, L. A.; Fritz, J. J., and Steele, W. A., all of chemistry.

At the American Physical Society meetings March 20-23 at Monterey, Cal., papers by Sauer, J. A.; Fitzgerald, E. R.; Woodward, A. E.; Odajima, Akira.

BOWHILL, S. A., electrical engineering, papers on "The Scattering of Radio Waves by an Extended Randomly Refractive Medium" and "The Effective Recombination Coefficient of an Ionosphere Containing a Mixture of Ions," in the February issue of *Atmospheric and Terrestrial Physics*.

BRAUN, W. G., McCORMICK, R. H., and FENSKE, M. R., chemical engineering, a chapter on "Design of Liquid Extraction Processes" to the book, "Separation Processes in Practice," published by Reinhold.

CORLE, C. G., education, on leave in the Philippines, a paper May 2 at the University of Rome on "The Scholastic Problems in the Philippines" and May 4 at the University of Florence on "Teacher Education in the United States."

CORSO, J. F., psychology, a paper on "The Neural Quantum Theory and the Threshold of Audibility" at the annual meeting of the Pennsylvania Academy of Science at Gettysburg March 31.

DEASY, G. F., GRIESS, PHYLLIS R., and MILLER, E. W., geography, papers at meetings of the Pennsylvania Academy of Science in Gettysburg March 31, on the respective subjects: "Some New Maps of the Anthracite Mining Industry;" "Some Specific Potential Tourist Sites in the Anthracite Region;" and "Changing Patterns of Fuel Production and Consumption in the European Common Market Countries."

ENGASS, ROBERT, art and architectural history, an article in the September issue of *Arte, Antica e Moderna, Rivista degli Istituti di Archeologia e di Storia dell'Universita de Bologna* on the subject, "Algardi's Potrait Bust of St. Philip Neri."

HARRIS, DALE, psychology, a paper, "Work Experience and the Adolescent Transition to Maturity," at the 38th annual meeting of the American Orthopsychiatric Association at New York.

HOSLER, C. L., meteorology, a paper at the International Conference on Nucleation of Ice, April 6-8, at the University of Arizona.

JORDAN, JOSEPH, chemistry, a paper titled "Electrode Kinetics by Hydrodynamic Voltammetry," at a meeting of the International Committee on Electrochemical Thermodynamics and Kinetics April 27 at Brussels, Belgium.

LANE, B. A., Behrend Campus, an article in two parts in the November and December issues of "The Official Publication of the Episcopal Diocese of Erie" on "The Chan-

cel Play," dealing with the technique used in writing a chance play.

LECZNAK, F. J., mineral preparation, and BARNOFF, R. M., civil engineering, an article, "Strength of Neat Cement Pastes Moulded under Pressure," in the February issue of the *Journal of the American Concrete Institute*.

LEWIS, F. H., HEWETSON, F. N., and ASQUITH, DEAN, entomology, a paper titled "The Sour Cherry Business — It May Be Better than You Think" in the Jan.-Feb. issue of *Pennsylvania Fruit News*.

LOTT, G. M., health service, a paper titled "The Prevention of College Failure," at the annual meeting of the American Orthopsychiatric Association, March 24.

LOTT, G. M., and GLENN, H. R., Health Service, a paper titled "Psychiatric and Mental Hygiene Services for Colleges and Universities: The Need for a Reasonable Program," in "Student Medicine," December, 1960.

MOURANT, J. A., philosophy, a paper titled "Thomistic Existentialism" at the 23rd annual meeting of "The Southern Society for the Philosophy of Religion at Emory University March 9.

OLIVER, R. T., speech, an article, "The Rhetorical Implications of Taoism," in the February issue of the *Quarterly Journal of Speech*.

PRYBYLA, J. S., economics, an article in the Jan. 28 issue of the *British publication*, "The Tablet," titled "President Kennedy's Economic Problems: The Outlook for 1961 in the United States."

ROSE, ARTHUR, chemical engineering, Chapter 29, "Distillation Analysis," in the recently published "Treatise on Analytical Chemistry," co-edited by P. J. Elving, former professor of analytical chemistry at Penn State.

SOPPER, W. E., forestry, a paper, "Educating the Forester in Watershed Management" at the annual winter meeting of the Allegheny Section of the Society of American Foresters in Baltimore.

THEODORSON, G. A., sociology and anthropology, an article, "The Religious Institution in the Soviet Orbit," in the Winter 1961 issue of the *Journal of Human Relations*.

WEIGERT, K. M., industrial engineering, a paper on "High Temperature Brazing Problems" before the Long Island chapter of the American Welding Society.

WEYL, W. A., mineral industries, a paper titled "The Effect of the Environment Upon the Properties of Solids," at the American Chemical Society Kendall Award Symposium at St. Louis, March 28.

WILLOWER, D. J., education, a paper titled "Concept Development and Research" at regional meetings of the University Council for Educational Administration, at the University of North Carolina April 10; at the University of Chicago, May 8; and the University of California August 27.

Elected and Appointed

AMBROSIUS, E. E., mechanical engineering, appointed to the Power Test Codes Committee No. 9 on Displacement Compressors of the American Society of Mechanical Engineers.

DAVIS, D. E., zoology, elected president of the Wildlife Disease Association.

GROSS, E. A., physical education, elected vice-president for physical education of the Pennsylvania State Association of Health, Physical Education, and Recreation.

JEFFRIES, W. S., 4-H Club, and STOVER, W. M., county agent, named to the Commission on Rural Health by the Pennsylvania Medical Society.

CALENDAR

Friday, April 7

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. S. Mrozowski, University of Buffalo, on "Broken Bonds, Surface Atoms, and the Electron Spin Resonance in Solids."

Saturday, April 8

Mid-semester below grades due.
Baseball, versus Villanova, 2:30 p.m.

Sunday, April 9

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Hon. Richardson Dilworth, mayor of Philadelphia and University trustee.

Artists Series program by the National Ballet of Canada, Recreation Building, 8 p.m.

Graduate Student Association Social Bridge group, 7:30 p.m., Room 212, HUB.

Monday, April 10

Faculty Luncheon Club, 12 noon, HUB dining room "A" (tickets at HUB desk). Genevieve Dilts, UCA associate director, on "Expressions of Religious Concern by Students."

Priestley Lecture Series, 8 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Using the Sun's Energy."

Tuesday, April 11

College of the Liberal Arts faculty meeting, 4:15 p.m., Room 121 Sparks. Dr. Richard F. Schier, deputy superintendent of Public Instruction, on "Report of the Governor's Committee on Education."

Film series of Town Independent Men, HUB assembly room, 12 noon - 1 p.m. and 6 to 7 p.m. (open to all). "Our Mr. Sun," from the Bell Telephone Series.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Day of the Race," by Alice Mahachek, directed by Richard Lewicki.

Baseball, versus Lehigh, 3:30 p.m.

Academic Year Science Institute lecture, 4:15 p.m., Room 111 Boucke. Dr. L. H. Loomis, Harvard University mathematics department.

Priestley Lecture, 8 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Chemical Kinetics and the Prediction of Reaction Rates."

Meeting of Penn State Chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Martin Brezin, United States Steel Corp., and Robert G. Redelfs, St. Joseph Lead Co., a colloquy on "Industrial Careers in Metallurgy."

Plant Science Club, 7:30 p.m., Room 111 Tyson. David H. McKinley, associate dean, College of Business Administration, on "A Preliminary Look at the 1960-61 Recession."

Lecture by Dr. H. E. Dickson, professor of art, 7:30 p.m., HUB Auditorium, on "The Arts and the Formation of the U. S." Sponsored by Liberal Arts Student Council.

Wednesday, April 12

Psychology Colloquium, 12 noon, HUB dining room "A". Dr. John F. Corso, professor of psychology, on "Some Theoretical Aspects of Sensory Discrimination."

English Colloquium, 7:30 p.m., Nittany Lion Inn. John Crowe Ransom, poet.

Chess Club meeting, 7 p.m., HUB card room.

Priestley Lecture Series, 8 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Photochemistry and Photosynthesis."

Thursday, April 13

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 10 Sparks.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Richard Wolfgang, Yale University, "On the Chemistry of High Kinetic Energy Atomic Hydrogen."

Joint Philosophy and Mathematics Colloquium, 4 p.m., Room 12 Sparks. Dr. Hugues LeBlanc, Bryn Mawr College, on "Truth and Estimated Truth."

Priestley Lecture Series, 4:40 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Geochemical Problems."

Illustrated lecture by Dr. Laura Thompson, distinguished visiting Professor of Anthropology, on "Explorations in Iceland," 8:00 p.m., Room 121 Sparks. Public invited.

Friday, April 14

Priestley Lecture Series, 8 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Thermoluminescence of Crystals."

Opening night of Center Stage production of "The Three Sisters," by Anton Chekhov, 8 p.m.

Mail -

(Continued from page one)

to inform their correspondents to address mail in this fashion:

John Doe
Sparks Building
The Pennsylvania State University
University Park, Pa.

The Mail Service has prepared postcards which may be sent to correspondents by faculty and staff members to correct improper addresses. The cards will be sent to faculty and staff members on request (please state the number desired) from Office Services, Service Building.

Not only will delivery be speeded by better addressing, Crump explains, but through increased efficiency, the delivery system will be less costly. An average of 500-1000 letters which must be directorized are received daily at present.

For several weeks the Mail Service has been informing mailers of magazines and similar pieces to use building names.

New faculty and staff members especially are being urged to inform their correspondents of the proper addressing method, since they frequently have many correspondents to advise of change of address.

CAUTION

Faculty, staff, and students have been asked to exert more caution in protecting both personal and public property on campus as a result of an increasing number of thefts. It is suggested that rooms in academic buildings and residence halls, especially those containing items tempting to would-be thieves, be locked when not occupied.

faculty BULLETIN

Vol. 48, No. 35 April 7, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Long distance

PLACING a long distance telephone call is much less complicated than many callers make it, says W. F. Diehl, supervisor of the telephone division.

Many sections of the country now have DDD — Direct Distance Dialing — and in setting up this convenient operation, the Bell System divided the country into over 100 areas and gave each area a code number. Even telephone users not in areas where DDD is available gain an advantage in the use of the Area Code number when they wish to make a long distance call outside their area.

To place a call to Pittsburgh from University Park, for example, it is suggested that the following phraseology be used:

"Operator, I wish to call Area Code 412, Plaza 7-6523."

If the call is to be person-to-person, add the name at the end of the sentence.

When calls are placed in this manner, the operator's task consists of dialing (or key pulsing) only ten numbers. It is not necessary for her to obtain information from a routing clerk and the entire process is completed in a few seconds.

When the operator asks for the information, the caller gives his office phone number, UN 5-xxxx, and not his name, unless it is desired to transmit the name to the person being called.

Although University Park is con-
(Continued on page three)

NEWS IN BRIEF

► **TUITION:** No tuition increase is planned for the 1961 Summer Term, President Eric A. Walker said this week. The announcement was made to counteract reports that a tuition increase may be instituted to offset a threatened reduction in the \$23 million appropriation request made by the University to the Commonwealth.

► **EUROPE:** A few vacancies still exist on the Student Government Association planned charter flight to Europe which is open to faculty and staff members and their families as well as to students.

The plane will leave New York for London June 11 and return flight will be from Paris July 23.

The round trip fare will depend on the number of participants but is not expected to exceed \$350 and might be as low as \$260. A few children can be accommodated at half-fare and four adults may take the flight one direction at two-thirds full fare.

For further information, contact W. F. Fuller, 202 Hetzel Union Building, UN 5-2564.

► **HOME ECONOMICS:** "Families in the Next 50 Years" is the theme of the College of Home Economics Dedication Conference to be held next weekend. The two-day program begins Friday, April 21, at 9 a.m. with a ribbon-cutting ceremony and reception to mark the dedication of the new Home Economics South building.

A series of talks by faculty members and visitors will be held both days. Highlights include a talk at 8 p.m., Friday by Dr. David Mace, executive director, American Association of Marriage Counselors, which will serve as the keynote of a Colloquium on Saturday at 9 a.m. on the theme, "Implications for Higher Education Based on Predictions for Families in the Next 50 Years."

Dr. Paul Miller, provost, Michigan State University, will summarize the Colloquium.

Tours of the buildings, exhibits, and movies will be featured during the two-day program.

► **ECONOMICS:** A series of public discussions on contemporary economic issues designed especially for the University community will begin on Tuesday, April 18. The program has been developed by the Department of Economics to contribute to intellectual interchange and understanding. All lectures will be given at 8 p.m. in the Mineral Industries Auditorium and will be followed by discussions.

On the first program Dr. J. J. Kauf-

man and Monroe Newman will discuss "Depressed Areas: Pockets of Poverty or Progress." Dr. Howard A. Cutler will be moderator.

Monday, April 24, the lecturers will be Drs. L. E. Fouraker and Thomas Iwand, on "Public Spending, Private Spending, and Growth." Dr. Philip A. Klein will be moderator.

The concluding program will be held Monday, May 1, with Drs. Will E. Mason and Marvin E. Rozen discussing "Our International Economic Position: Gold and All That." Dr. Ervin P. Hexner will moderate.

► **MONOGRAPHS:** Faculty members in the Social Sciences are invited to submit outstanding term papers written by undergraduate or graduate students during the 1960-61 academic year to the local monograph committee of Pi Gamma Mu, Social Science Honorary Fraternity.

The paper selected will be published in the Monograph Series established by the Penn State Chapter a few years ago. These monographs are distributed to selected libraries in Pennsylvania.

Faculty members should send manuscripts, with brief nominating letters, to Dr. Deno G. Thevaos, 210-C Burrows Building, before the end of the Spring semester, June 6, 1961.

► **RECITAL:** A program of French, Italian, German, and English arias and songs will be presented by Mrs. John Dixon, accompanied by her husband, for the Alliance Francaise of the University in the Chapel Lounge this evening (Friday) at 8:30 p.m. Mr. Dixon is currently a participant in the NDEA French Institute.

► **ARTISTS:** Andres Segovia, master of the Spanish guitar, will be featured on the Artists Series at 8:30 p.m. Thursday April 20 and Friday April 21 in Schwab Auditorium. Tickets go on sale to the public Tuesday April 18 at the HUB desk.

Segovia made his concert debut at the age of 14 in Granada, Spain. He came to the U. S. in 1928 and has gained recognition as one of the unique artists of our time. He played in eleven European countries last year and the year previous had toured Japan.

The program includes selections by Bach, Haydn, Mendelssohn, Milan, de Visse, Sor, and Albeniz.

► **EXHIBIT:** Paintings by Eleanor Zyglar, assistant professor of art, will remain on exhibit in the HUB gallery until April 22.



Wall hangings appeal

David Van Dommelen discusses wall hangings.

WITHIN the past decade there has been a resurgence of interest in an art form which is as old as sewing and weaving — wall hangings.

"The interest is not only among artists," says David B. Van Dommelen, instructor in housing and home art, "but also among those who would use the end products."

Van Dommelen is one of the country's leading practitioners in wall hangings. (His interests and skills are far beyond this field, of course.) He has exhibited widely and some of his works are in the permanent collections of Michigan State University and Marshall Field and Co., Chicago, and in the hands of over 20 collectors. His wall hangings are currently being exhibited at the Michigan Artists-Craftsman Show at the Detroit Institute of Art.

As a teacher, also, Van Dommelen has reason to witness the interest in wall hangings developing among decorators, homemakers, and even little boys.

"The program of arts and crafts in many schools," he says, "now includes making wall hangings at the fourth or fifth grade level. And even though in this country anything that smacks of needlework or weaving is not supposedly masculine enough for 10 or 11 year-old boys, in many schools the boys are doing better work than the girls."

The appeal of wall hangings as an art or craft may very well stem from the great latitude the creator has in selection of techniques and materials. Trying to define wall hangings is difficult for this reason, but as the name implies, the end product is a decoration for the wall, and in general the foundation for the hanging is a fabric.

"From that point on, in formulating the definition," says Van Dommelen, "you can let your imagination take its course. One lady is well known for her work with weed plants and seeds,

another with leather, and many with metals.

"Some wall hangings are made by weaving, others by needlepoint, applique, embroidery, collage, hooking, etc. Of course there are skills to be learned, but the most difficult part of teaching is to get the person to cast out the limitations normally imposed in sewing. It isn't easy to create in any art form, but for those who have been accustomed to sewing in a fixed way and following certain patterns, making original and interesting wall hangings is difficult."

Van Dommelen conducts a workshop each summer which attracts many homemakers who want to learn more about home art generally. Wall hangings have proved extremely popular.

"The most difficult phase of teaching in the workshop," he says, "is to make the ladies see that this is a way of expression. Some do acceptable work almost immediately, but I'm afraid many are too bound to tradition to use the medium to its best advantage."

Wall hangings, although frequently made of common materials, offer more opportunities for experimentation in fabrics and their combinations than would be true with uses of those same fabrics in clothing, furnishings, etc.

"I don't know of a practical use for a linen-burlap combination of materi-

als," Van Dommelen says, "but it has been used quite successfully for a wall hanging. The fact that the hanging isn't subject to wear and probably needs only occasional dusting changes completely the concept of the utility of many fabrics."

The stimulation of interest in wall hangings in the United States probably came from Scandinavian countries, which have been leaders in the craft field for several generations. But even if this is true, it can also be said that the products of American artists are internationally known.

"There are many evidences of the increased art consciousness of Americans in the past five years," Van Dommelen says. "There are three basic motives in this interest: expression, decoration, and investment."

"It is true that wall hangings aren't considered the investment that oil paintings are and so their development has been dependent on the first two motives. But this is not to say that wall hangings are not 'commercial.' Many owners of fine homes or attractive business houses have called in decorators to design hangings and have been willing to spend extravagantly for well done work."

"In such cases the hanging is designed in relation to the total effect to be created and presumably many homemakers who come to our work-



Two examples of David B. Van Dommelen's art and skill with wall hangings serve to show how sewing takes on a new dimension when the goal is decoration.

shops would also create for a particular use in their homes.

"But many artists are creating hangings which are necessarily without reference to other decorations and you will find them in exhibits, in galleries, and in the finer shops."

Of especial interest on campus is the dossal designed and supervised by Sybil D. Emerson, professor emeritus of art education, for the Helen Eakin Eisenhower Chapel. The dossal is of abstract design, in imported Belgian linen. The design was worked into the linen by first using a "zig-zagger" on a sewing machine to make rows of stitches through which yarns of different weights and colors were threaded by hand.

"Hangings imply to some people that the design must be worked in by hand," Von Dommelen says, "but that is not true."

"In a forthcoming issue of Look magazine an article in which I am fortunate to be featured will explain the uses of machines in doing this art work."

"There is virtually no limit to the imagination you can use in making wall hangings, from the standpoint of methods, materials, or expression."

"Perhaps that's the reason for the wide appeal they have assumed in the last decade."

Long distance —

(Continued from page one)

nected with direct distance dialing network for incoming calls, outgoing long distance calls are still handled by a Bell operator.

A partial list of communities frequently called by University faculty and staff is given below with their area codes for quick reference:

Allentown	215	Lancaster	717
Annapolis	301	McKeesport	412
Baltimore	301	New Castle	412
Bethlehem	215	New York	212
Bloomsburg	717	Ogontz	215
Chicago	312	Philadelphia	215
Cleveland	216	Pottsville	717
Columbus (O)	614	Stroudsburg	717
Detroit	313	Wash., D. C.	202
Easton	215	Wilkes-Barre	717
Harrisburg	717	Wyomissing	215
Hazleton	717	Wilmington (D)	302

(Note that of the University Campuses and Centers, Behrend, at Erie, and York are not listed. The systems at these two communities are not yet connected with the Bell System for these purposes. Note also that University Park and surrounding communities are in the 814 Area.)

Faculty and staff members can be of assistance to those who call from outside the area by referring to their area code in correspondence. Those who call from communities having DDD use the area code number in their dialing, if the call is outside their area.

Senate Minutes

Minutes of the Meeting of April 6, 1961

The University Senate met at 4:15 p.m. on Thursday, April 6, 1961 in Room 121 Sparks Building with Dean L. E. Jackson presiding. The minutes of the March 2, 1961 meeting were approved as printed in the Faculty Bulletin for March 17, 1961. One hundred eighty-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Ruth W. Ayres (Aurelia K. Adams), K. R. Beittel (Y. G. Chomicky), W. P. Campbell (W. G. Noyes), H. W. Dunne (A. J. Winter), Della Durant (Patricia Welser), D. H. Ford (J. D. Ashby), L. P. Guest (Helen Snyder), E. L. Keller (T. S. Goas), R. E. Larson (L. D. Tukey), N. A. Norton (W. E. White), F. W. Peikert (H. V. Walton), N. C. Pendered (B. E. Voss), G. N. Raney (S. F. Mack), E. P. Strong (W. M. Hench), and M. A. Williamson (A. T. Thompson).

A communication from President Eric A. Walker addressed to G. H. Albright, N. M. Brentin, W. J. Cain, Jr., R. B. Dickerson, Katherine H. Fisher, G. M. Guthrie, J. D. Lawther, C. R. Marsh, and R. K. Murray was read as follows:

Effective immediately, I should like to have you serve, with Dr. Murray as chairman, as a special University Committee on the Peace Corps. I am enclosing a copy of a letter sent to President Kennedy prior to his inauguration outlining certain ideas concerning the possible development on University campuses of educational programs encompassing the Peace Corps concept.

Mr. Dennis has indicated that he can obtain for the committee copies of all documents relating to the Peace Corps that have been made public thus far, and with a copy of this memorandum to him I am requesting that those be sent to Dr. Murray as quickly as possible. In Dr. Murray's capacity as chairman, I shall expect him to act as liaison between the special committee and the Senate Committee on Educational Policy, which would need to consider any recommendations with regard to academic policy that the Peace Corps committee might wish to make. I hope you will be able to study all aspects of the Peace Corps project during the next few weeks and submit your first commentary and recommendations to me by no later than May 15, 1961. Dr. Howard A. Cutler and I stand ready to be of whatever assistance we can in your deliberations.

With a copy of this memorandum to Dr. Bernreuter I am requesting him to announce the appointment of the special committee at the next meeting of the University Senate.

The secretary stated parenthetically that we have received application blanks for students who wish to join the Peace Corps and they have been turned over to the offices of the Dean of Men and the Dean of Women.

A communication from D. V. Josephson to President Walker, and which had the approval of President Walker, stated that F. T. Hall, Jr. would replace A. H. Jacobson on the Senate Committee on Student Affairs for the balance of the 1960-1961 academic year. R. W. Green would replace J. S. Bow-

man as a member of the Senate Committee on Academic Standards, and Jeanne Riebel would serve as vice chairman of the Committee for the Spring Semester, 1961.

REPORTS OF STANDING COMMITTEES

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix "C." He stated this report was in five sections and he would ask that each section be acted upon separately. Section A contained a new rule E-13. Mr. Brickman moved adoption of the new rule as follows:

E-13 Those members of the graduating class who have fulfilled the following requirements shall have the fact of their completion of an Honors Program inscribed on their diplomas:

- a. Admission to an authorized Honors Program with at least fourth term standing and with a grade point average of at least 3.00 (or a 4.00 average in all courses in his academic major); maintenance of a cumulative grade point average of at least 2.50 while enrolled in the Honors Program.*
- b. Completion of at least twelve (12) credits in authorized Honors Program course work, at least nine (9) of which must be in the major department.*
- c. Passing of a comprehensive examination administered by an Honors Program Committee.*

This rule summarizes the minimum Honors Program standards approved by the Senate last year and converts the "third semester standing" requirement to "fourth term standing." The motion was seconded and passed.

Mr. Brickman then moved that Section B which recommended the deletion of Rule 0-7 and the changing of 1-9 be approved. The proposed Rule 1-9 would read:

The holding of evening examinations in courses not normally scheduled during the evening periods shall not be permitted.

The motion was seconded. Comments were made by Messrs. R. E. McCord, R. G. Stoner, W. G. Mather, C. I. Noll, Hummel Fishburn, J. E. Livingston, and A. D. Brickman. The question was called for and the Chair ruled that by the voice vote the motion was lost.

Mr. Brickman then presented Section C to delete Rule 0-8 and change Rule 0-1 to read:

When a final examination is considered an integral part of a course, such an examination shall be conducted during the regularly scheduled class meetings

He moved the adoption of the proposed changes. The motion was seconded. Joseph Jordan moved that all reference to final examinations be deleted from the Senate Regulations for Undergraduate Students. The motion was lost for want of a second. W. H. Powers moved, in view of the action just taken on Rule 1-9, that Section C be returned to the Committee on Academic Standards. The motion was seconded. Mr. Brickman pointed out that Rule 0-1 would be an alternate rule for the interim period while the Educational Policy Committee is considering the matter. The motion was lost. The recommendation as presented by the Committee was passed.

Mr. Brickman presented Section D to Retain Rule 0-4 and stated that it did not require action by the Senate. Mr. Jackson ruled that Section D be reviewed by the Senate.

Mr. Brickman presented Section E to
(Continued on page four)

CALENDAR

Friday, April 14

Priestley Lecture Series, 8 p.m., Room 119 Osmond. Dr. Farrington Daniels, on "Thermoluminescence of Crystals."

Opening night of Center Stage production of "The Three Sisters," by Anton Chekhov, 8 p.m.

Mineral Industries Colloquium, 4:15 p.m. Mineral Industries Auditorium. Paul Ramdohr, professor of mineralogy, University of Heidelberg, on "Textures of Ore Minerals in Polished Sections and What They Can Say."

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby.

Recital of French, Italian, German, and English songs for Alliance Francaise by Mrs. John Dixon, 8 p.m., Chapel Lounge.

Physics Colloquium, 4:15 p.m., Room 119 Osmond. Dr. Bernard Mozer, department of physics, Brookhaven National Laboratory, on "Atomic Line Shapes from a Plasma."

Saturday, April 15

Varsity athletics: Lacrosse, versus Loyola, 2 p.m.; Tennis, versus Georgetown, 2 p.m.; Baseball, versus Army, 2:30 p.m.

Center Stage production of "The Three Sisters," by Anton Chekhov, 8 p.m.

Sunday, April 16

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. H. H. Farmer, Norris-Hulse Professor of Divinity, Cambridge University, England.

Graduate Student Association Social Bridge, 7:30 p.m., Room 212 HUB.

Monday, April 17

Faculty Luncheon Club, 12 noon, HUB dining room "A." Dr. H. K. Schilling, dean of the Graduate School, on "Problems and Issues in Graduate Education with Special Reference to Penn State." (Tickets for lunch at HUB desk.)

State College Color Slide Club meeting, 7:30 p.m., Mineral Industries Auditorium. "Nature Photography," with Dorothy Borderer, Richard C. Newton, Merrill Wood, and Vladimir Vand.

College of Education faculty meeting, 4:15 p.m., HUB assembly room.

Lecture by Dr. H. H. Farmer, Norris-Hulse professor of divinity emeritus, Cambridge University, 8:00 p.m., Chapel Lounge.

Tuesday, April 18

Department of Economics "Contemporary Economic Issues Lecture Series," with J. J. Kaufman and Monroe Newman on "Depressed Areas: Pockets of Poverty or Progress," 8 p.m., Mineral Industries Auditorium.

Education movie series of Town Independent Men, 12:30 to 1 p.m. and 6:30 to 7 p.m., HUB assembly room, featuring "Nike Hercules," from the Bell Telephone Series.

English Colloquium 7:30 p.m., Nittany Lion Inn. Samuel P. Bayard on "Traditional Fife Tunes and their Associations."

Meeting of Phi Epsilon Phi, botanical honorary, Room 111 Tyson. 7:30 p.m., Dr. James G. Hornsfall, on "The Fight with the Fungi."

Economics Seminar, 12 noon, HUB dining room "A." Judith Stoye, instructor in business statistics, on "Land Utilization as a Stochastic Process."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. An original one-act play.

Physics Colloquium, 4:15 p.m., Room 119 Osmond. Dr. W. G. Johnston, General Electric Research Laboratories, Schenectady, N. Y., on "Properties of Individual Dislocations."

Wednesday, April 19

NDEA French Institute sponsored movie, "Le mouton a cinq pattes," starring Fernandel, 8 p.m., Room 209 Home Economics South. With English subtitles.

Chess Club meeting, 7 p.m., HUB card-room.

Golf, versus West Virginia, 1:30 p.m.

Thursday, April 20

Artists Series program by guitarist Andres Segovia, 8:30 p.m. Schwab.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Gilbert Stork, department of chemistry, Columbia University, on "Stereochemical Control and Total Synthesis."

Friday, April 21

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. M. R. J. Wyllie, director, Reservoir Mechanics Div., Gulf Research and Development Co., on "Research Investigations by Gulf's Reservoir Mechanics Division."

Home Economics Dedication Conference, begins at 9 a.m., continues all day, with featured Speaker, Dr. David Mace, American Association of Marriage Counselors, delivering keynote address at 8 p.m. on "Families in the Next 50 years." (Continues Saturday.)

Senate —

(Continued from page three)

adapt the P-Rules to the 12-term curriculum. He moved adoption of the recommendation as follows:

1. Change "semester(s)" to "term(s)" throughout.
2. In P-12, change the column reading "Second, Fourth, Sixth, Eighth" to "Third, Sixth, Ninth, Twelfth;" and In P-13, change "First, Second, Third, Fourth" to "First, Third, Fifth, Sixth."
3. Delete P-19.

The motion was seconded. Mr. Stoner moved that the following be added to Rule P-12: *except that no student shall be dropped under the provisions of this rule prior to his completion of two full terms in this University.*

The motion was seconded and lost. The motion as presented by the Committee was passed. The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, stated the report had been distributed in two parts. The first was distributed with the agenda as Appendix "A" and the second as a Supplement to Appendix "A." He asked that unanimous consent of the Senate be given to act on the Supplement. There being no objection, Mr. Shelley moved that the proposals as recommended in I A, I B, and I C of Appendix "A" and I A and I B of the Supplement be adopted. The motion was seconded and passed. He called attention to Item II in Appendix "A" advising the members of the Senate that the deadline for submission of course and curriculum proposals for the General Catalog for 1962-1963 had been extended to May 1, 1961. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the Informational Report which the agenda as Appendix "B" and stated that the Committee felt it would like to go through one year under the Term System and then make recommendations. He called attention to the two types of examinations listed in the report, namely, "The Intermediate Examination" and "The Baccalaureate Examination." He moved that the Senate receive this report. The motion was seconded and passed. The report will appear in next week's Faculty Bulletin.

CONTINUED NEXT WEEK

faculty BULLETIN

Vol. 48, No. 36 April 14, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Study abroad

MORE than 150 students have made initial application for the new Program of Study Abroad of the College of the Liberal Arts.

The Program is designed to enable students to expand their knowledge of the culture of a country or region of the world by living and studying abroad.

Two types of programs are being offered: (A) Specialized Study, for those having a language facility to enable them to enroll as regular students in foreign universities of their choice; and (B) Elective Study, which provides for group study in selected foreign universities, with enrollment in courses especially designed for Penn State students.

Some Penn State students have, in past years, studied under a plan similar to Program A, through other Amer-

Dr. Dagobert de Levie, associate professor of German, has been named director of the Study Abroad Program by Dr. Ben Euwema, dean of the College of the Liberal Arts.

ican institutions cooperating with foreign universities. Each student who plans to take part in Program A will work out his course of study with his adviser, the Director of the Study Abroad Program, and the University Examiner.

Those taking part in the Elective Study program, which to date has been the more popular among the applicants, will be taught in English by

(Continued on page four)

NEWS IN BRIEF

► **RESTON:** James Reston, head of the Washington Bureau of the New York Times and its chief Washington correspondent and columnist, will speak on the subject "Behind the Washington Dateline" in the University Lecture Series Tuesday, April 25, at 8:30 p.m. in Schwab Auditorium.

Tickets will go on sale to the public at the HUB desk Sunday, April 23 and continue April 24.

Reston, who is one of the country's most distinguished political observers, has won the Pulitzer Prize twice, the Overseas Press Club award three times, and the George Polk Memorial Award for National Reporting. He has also received the Legion d'Honneur, Order of St. Olav (Norway) and the Order of Merit (Chile).

► **ARTISTS:** Andres Segovia will give the second of his two performances this evening in Schwab Auditorium on the Artists Series.

The next program will be held on Tuesday, May 2, in Schwab Auditorium when Ronald Roseman, oboist, will be featured with the University Symphony Orchestra.

Tickets will be on sale for this program, the last of the current series, April 29 and May 1.

► **LECTURE:** The second in the current series of lectures in the Contemporary Economic Issues Lecture Series developed by the department of economics will be held Monday, April 24, with Drs. Lawrence Fouraker and Thomas Iwand as speakers and Philip A. Klein as moderator.

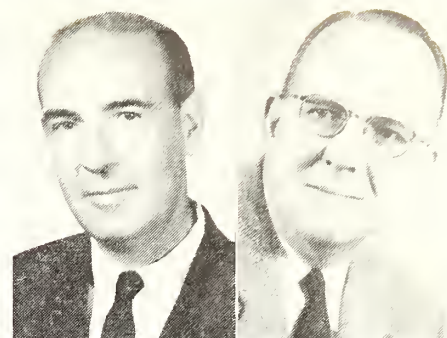
Subject of the lecture will be "Public Spending, Private Spending, and Growth." The lecture will be held in the Mineral Sciences Auditorium at 8 p.m.

► **CHORUS:** The Penn State Women's Chorus, directed by Dr. W. Paul Campbell, associate professor of music education, will give its annual spring concert Sunday, April 23, at 3 p.m. in Schwab Auditorium.

The Chorus will sing compositions by Bach, Brahms, Schubert, and Tschaiakowsky, among others, and several spirituals and show tunes.

► **READING:** More than twenty colleges will be represented in the 13th Intercollegiate Reading Festival Thursday and Friday, April 27 and 28. Sessions will be held in the Hetzel Union Building, the session on Thursday afternoon beginning at 2 p.m. in the Reading Room, and all other sessions in the Assembly Room. Thursday evening's session will start at 8

(Continued on page three)



Dr. Pollard

Dr. Foreman

PERSONNEL MATTERS

Dr. Ernest G. Pollard, chairman of the department of biophysics at Yale University, has been named professor of biophysics effective July 1. He has been serving as distinguished visiting professor of biophysics since last July and will continue in this capacity until June 30.

Born in China, Dr. Pollard was graduated from Caius College, Cambridge, England, and obtained his doctor of philosophy degree from Cavendish Laboratory at Cambridge in 1932. He was assistant lecturer at Leeds University from 1930 to 1933. He went to Yale as Sterling Fellow and advanced to the position of chairman of the department of biophysics in 1955.

Dr. Paul B. Foreman, professor and head of the department of sociology at the University of Alabama since 1954, has been named professor of sociology. He is a University of Oregon graduate and received the master of science degree in sociology there also. His doctor of philosophy degree was granted by Vanderbilt University.

He studied at the University of Minnesota as a Julius Rosenwald Fellow. He has taught at Oklahoma State University and the University of Mississippi, and was social science analyst with the Operations Research Office at the Johns Hopkins University.

He will teach the course in race and race relations.

Other recent faculty changes include the following:

Dr. James B. Bartoo, who has served on the faculty of the mathematics department since 1952, has been named head of that department, succeeding Dr. Orrin H. Frink, who will continue as professor of mathematics. Effective date of the appointment was April 1.

David R. Mitchell, who has been acting dean of the college of Mineral

(Continued on page four)

Senate Minutes

MEETING OF APRIL 6, 1961

CONTINUED FROM LAST WEEK'S ISSUE

INFORMAL REPORT

During the last year the Subcommittee has been examining the whole program of testing in the University. We hope to have a complete report in your hands by the end of the winter but we felt that three sections of the report were of greater significance and required immediate action by the parent Committee. We have, therefore, separated these suggestions and are herewith presenting them for your attention.

Examination Under the Term System

INTRODUCTION

In the Semester System a ten-day period was devoted at the end of each semester for the conduct of final examinations. The justification for this lay principally in two directions:

1. The 2-hour examination period allowed sufficient time for the examination to be reasonably comprehensive of the course.
2. The fact that all students took the same examination provided a common basis for evaluation of accomplishment; and, in multiple-section courses, encouraged the proper degree of uniformity in coverage, which especially in prerequisite courses, is important.

In the Term System as presented on October 1, 1960 the ten-day examination period has been eliminated, and it has been suggested that final examinations be given in the final week of the course.

Implications of this for the two advantages listed above are:

1. A final examination given in one 75-minute period would be considerably less comprehensive than a 2-hour examination could be.
2. Since the sections of multiple-section courses would probably meet at various times, as many different final examinations would have to be written for a course as there are different meeting times.

In addition to these two points, there is a third point about which this Subcommittee is equally concerned, especially at this time of rapidly increasing enrollments. This pertains to the degree to which a student has interrelated and integrated the principles and skills of the many courses of his undergraduate program.

Certain courses lean heavily on their prerequisites, and the student in those courses does to some extent accomplish the integration. However, in many other cases students see no relation between their courses. Students often comment, "I'll be glad when that course is over so I can forget it," or "I don't see why I'm taking that course."

In keeping with Penn State's purpose as a true university, this Subcommittee believes that a student should be obliged to become more immediately aware of the interrelation between his courses, and that he should see more clearly the unity of his curriculum and of his entire undergraduate program.

To help meet these three objectives, this Subcommittee makes two suggestions concerning examinations: the first, to meet the short time objection; and the second, to meet the uniformity and integrative requirements.

THE FIRST SUGGESTION

This suggestion concerns the scheduled meeting times for the last three days of a term, and would lengthen all class meetings in these three days from 75 minutes to 120 minutes. This would be accomplished by extending class schedules for these three days into the evening.

A possible schedule, which would apply for each of the three days is shown in Table I.

Normal Meeting	Exam Meeting
8:00 - 9:15	8:00 - 10:00
9:35 - 10:50	10:30 - 12:30
11:10 - 12:25	1:00 - 3:00
12:45 - 2:00	3:30 - 5:30
2:20 - 3:35	6:30 - 8:30
3:55 - 5:10	9:00 - 11:00

The adoption of this schedule for the last three days of a term would add no new scheduling problems, as the same rooms would be used as would have been used for the 75-minute examination periods.

THE SECOND SUGGESTION

We herewith propose certain examination requirements for all students over and above the individual course examinations referred to in the first suggestion.

There seem to be two points in the student's career that are particularly appropriate to more general examination. The first is at the end of the student's first six terms, at which point he should have reasonable mastery of the basic tools and skills which are prerequisite to the more advanced courses of his major. He should also at this point have moved forward in accordance with the University's general education objectives as set forth in the Callenbach Report.*

* Report of the Senate Subcommittee on General Education, October 1954.

The other appropriate point for examination is at the end of his undergraduate studies, at which point he should possess an integrated understanding of his field and the related fields which he has studied. By this time the student should also have achieved the above mentioned University's general education objectives.

This Subcommittee suggests the institution, for all undergraduate students, of two examinations: the first, at the completion of six terms, to be referred to here as the "intermediate examination;" and the second as the "baccalaureate examination."

Each of these examinations would be of the order of eight hours in length, given on one day or on two consecutive days.

A. The Intermediate Examination

a. Objective

The objective of this examination is: (1) to examine the student on the basic principles and skills which he will be called upon to use in subsequent courses in his major; and (2) to assess his progress in general education.

b. Coverage

This examination would cover all of the required courses of the student's major during the first six terms, and such other courses as his department may decide. In this examination the student would be tested not only on his knowledge in individual courses, but also on his ability to apply the knowledge of one course in the context of another. It should also cover the progress of points 3-13 in the Callenbach Report, so far as it can be determined at this point of the student's career.

c. Format

The examination would be divided into sections according to emphasis. An example will illustrate this. The intermediate examination for an Electrical Engineering student might be composed of five sections: (1) a section on English, comprehending his courses in composition, literature and speech; (2) a section on mathematics; (3) one on chemistry; (4) a section on physics and engineering mechanics, making use of the mathematics; and (5) a section on electricity, covering

his first two electrical courses, and involving frequent reference to other courses, especially the prerequisites. Throughout these examinations care would be taken to include items designed to implement appropriate Callenbach points.

d. Conduct

A division of students for the conduct of the examination might logically be along College lines, because in most colleges the students would have much in common in their first six terms.

In Engineering, for example, most if not all students could take a common examination on the first four points mentioned above. For the fifth part, they would be separated according to major. Analogous procedures will certainly be possible for other curricula.

e. Scheduling

The Intermediate Examination would be scheduled after the close of the term, probably in the last half of the following week.

Whether it should be given at the end of all four terms is a question to be decided on the basis of demand and feasibility but it would seem necessary to offer it at least at the close of the Spring and Summer terms.

f. Examination Grade

It is proposed that the total examination be designated as "Pass," "Conditional Pass," or "Fail." A student who fails the examination must reschedule and pass it at a later date. A student who receives a "Conditional Pass" must reschedule and pass that portion of the examination which he failed. Notification of the result shall be reported by the College to the Recorder, who will make the necessary entries on the student's transcript.

Both the student and his advisor will be informed of the results at the same time and the examination sent to the advisor to be filed in the student's folder. It is anticipated that a student failing all or part of the examination will consult with his advisor.

g. Implications of Passing or Failing

This Subcommittee proposes that passing the Intermediate Examination, with or without condition, becomes prerequisite for seventh term standing and for scheduling certain courses, including the present 400-level courses. Furthermore, it proposes that the 300-designation be used to identify non-graduate level courses open only to students who have passed the Intermediate Examination.

The Intermediate Examination would in no way affect or contribute to the grade a student has received for a particular course or contribute to the student's all-University average. If the examination showed weakness in an area, however, the student and his advisor should decide on a program of course work or individual study that will enable the student to overcome weaknesses indicated by the examination and prepare for the reexamination where necessary.

h. Writing the Examination

Only if great care and wisdom are exercised in writing the examination will we be able to get the full value of it within the limits of feasibility necessitated by the large numbers of examinees.

It is proposed that the examination be written in sections (as described in the example given in part c above) and that the examiners of each section

include a faculty member from the student's College or Department, and a faculty member from each of the subjects included in that section of the examination.

It would be the responsibility of the authors to provide for comprehensiveness within their section of the examination. The examiners might wish to consult with the Division of Academic Research and Services on the design and grading of the examinations, with consideration being given to the possibility of using machine-scoring. Because writing these examinations will be a major undertaking, it is proposed that the authors be given a commensurate reduction in other academic load during the term in which they write it.

i. Administration and Grading

Although the preparation of the examination should be the responsibility of qualified full-time members of the faculty, it could be administered and graded by other members (under supervision where necessary) — perhaps on an extra-compensation basis.

With the large numbers of students taking the examination at any one time — two or three thousand with current enrollments — it is probably impossible to schedule all for large rooms. Should this prove a problem the examination could be given in smaller rooms with adequate proctoring.

j. Implementation

The requirement of the Intermediate Examination could be made for students entering after June 1, 1961 which would mean that it would not be given officially for about two years from that date. The intervening period would be used to renumber courses as suggested in Section (g) and to prepare the examinations. We recommend, however, that examinations be prepared as soon as feasible and given to students on an experimental basis in order to iron out difficulties and establish standards before the examination requirement goes into effect.

B. The Baccalaureate Examination

a. Objective

The objective of this examination is to determine before graduation whether the student has acquired a sufficient integrated understanding of his field and related fields and has reached the general educational level envisioned in the Callenbach Report.

b. Coverage

In accordance with the above ob-

jective the examination would measure the student's achievement in three different respects:

1. Mastery of typical factual information of universal concern regardless of professional specialization, as well as development of critical judgment, in the four broad areas of knowledge: Physical sciences, biological science, social science, and the humanities (Callenbach points 2 and 3), as covered primarily by elective courses.
2. Skill in effective listening and speaking, in reading and writing, and in the ability to think quantitatively (Callenbach points 4 and 5), as developed specifically in certain required courses and generally in all courses of the student undergraduate program.
3. Mastery of basic principles and skills necessary for professional competence at the Bachelor's level, as covered in "major" courses required (either specifically or as restricted alternatives) during the student's entire undergraduate program, plus such other courses as the department may decide.

c. Format

The Subcommittee advocates the use of the Graduate Record Examinations for these purposes as practical, thoroughly tried, and widely recognized tests which, moreover, are required or considered desirable by many graduate schools in the country. The coverage described under (b) is provided specifically by the GRE Area Test (point 1), GRE Aptitude Test (point 2), and Advanced Test (point 3), as set forth in the Educational Testing Service Handbook. In certain instances an appropriate GRE Advanced Test may be inadequate or non-existent and the major department may have to find or construct a suitable substitute.

d. Conduct

As in the case of the Intermediate Examination, the Baccalaureate Examination should be administered within the framework of the Colleges.

e. Scheduling

The Baccalaureate Examination should be scheduled in or near the sixth week of the student's final term so that the student will realize maximum benefit from his courses and to permit adequate time for the processing of the examination. The Area Test will require a little over four hours, the other two tests require three hours each.

f. Implications of Passing and Failing

In addition to the existing requirement for graduation the student shall be required to achieve a passing grade for the Baccalaureate Examination. Minimum passing scores will have to be established for each of the tests. In the event of failure in one or more of the three sections of the examination a student should be allowed to repeat the examination during a subsequent scheduled examination period, but would be required to do so only in the section or sections failed previously.

g. Disposition of Results of the Examination

Graded examinations and the GRE score reports would become a part of the student's permanent file. Three copies of the GRE test scores are provided by the Educational Testing Service, including one for the student. The results would be entered on the student's transcript.

h. Implementation

Again the Baccalaureate Examination cannot be required of students already enrolled in the University so that twelve terms will have to pass before we can start giving the examination as a regular part of graduation requirements. The intervening period could well be used for preparation of the examinations where necessary and their administration on an experimental basis in order to establish standards when the requirement goes into effect.

UNFINISHED BUSINESS

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, called for the question on the recommendation that Article II, Section 1 (n) 2 of the By-Laws be modified to include *the Coordinator of Student Activities as an ex officio, non-voting member of the Subcommittee on Organization Control of the Senate Committee on Student Affairs*

which had been presented in writing at the meeting of March 2, 1961. The motion to modify the By-Law was passed.

Mr. Jackson announced that names of the elected senators are to be submitted IN WRITING to the secretary before the May 4 meeting. The secretary will read the names at the May 4 meeting.

The next regular meeting of the Senate will be on Thursday, May 4, 1961; the agenda will be distributed on April 20, 1961. The meeting adjourned at 5:03 p.m.

Robert G. Bernreuter
Secretary

News —

(Continued from page one)

Industries since last November, has p.m.; the Friday session at 9:45; and the Friday afternoon session at 1:15 p.m. Visitors are welcome at all sessions.

Dr. William W. Hamilton and Harriet D. Nesbitt, of the speech department, are in charge of the program, which includes readings of poetry, prose, and drama.

► **LECTURE:** Dr. Philip Morrison, professor of physics, Laboratory of Nuclear Studies, Cornell University, will present the third and final lecture

in the Graduate Lecture Series for the Spring semester Thursday, May 4, at 8 p.m., in Room 121 Sparks.

He will speak on "The Ape at the Typewriter: an Analysis of Chance and Design."

A graduate of Carnegie Tech, Dr. Morrison was granted the doctorate by the University of California. After teaching at San Francisco State College and at the University of Illinois, he served as physicist on the highly secret Manhattan Project and later in the metallurgical labs at the University of Chicago and at Los Alamos. He was a participant in the first atomic explosion in July, 1945, and member

of the first official U. S. party to visit Hiroshima after bombardment. He has been at Cornell since 1946. In 1955 he received the Pregel Prize of the New York Academy of Sciences.

► **EUROPE:** Faculty and staff members and their immediate families, as well as students, are eligible to obtain a round trip flight ticket, New York to London July 17 and Glasgow to New York Aug. 25 for \$245. The flight will be made in a pressurized BOAC "Britannia" turbo-jet plane which will carry members of the University Chapel Choirs and those who are participating in the European Music Festival tour.

CALENDAR

Friday, April 21

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. M. R. J. Wyllie, director, Reservoir Mechanics Div., Gulf Research and Development Co., on "Research Investigations by Gulf's Reservoir Mechanics Division."

Home Economics Dedication Conference, begins at 9 a.m., continues all day, with featured speaker, Dr. David Mace, American Association of Marriage Counselors, delivering keynote address at 8 p.m. on "Families in the Next 50 Years." (Continues Saturday.)

Center Stage production of Chekhov's "The Three Sisters," 8 p.m.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. Robert W. Truitt, head, department of aerospace engineering, Virginia Polytechnic Institute, on "The Thermodynamics of an R-Times Ionized Gas."

Artists Series program by Andres Segovia, 8:30 p.m., Schwab Auditorium.

Saturday, April 22

College of Home Economics Dedication Conference, Colloquium at 9 a.m., program continues all day.

Varsity athletics: track versus Navy, 1 p.m.; golf versus Pittsburgh, 1:30 p.m.; tennis versus Pittsburgh, 2 p.m.; baseball versus Lafayette, 2:30 p.m.; lacrosse versus Pennsylvania, 4 p.m.

Sunday, April 23

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, assistant University chaplain, on "The Temptation of Law."

Women's Chorus, directed by W. Paul Campbell, in concert, 3 p.m., Schwab Auditorium.

Graduate Student Association Social Bridge, 7:30 p.m., Room 212 HUB.

Monday, April 24

Faculty Luncheon Club, 12 noon, HUB dining room "A." Dr. H. R. Fortmann, assistant director of the Agricultural Experiment Station, on "Our Daily S L O C S — and the A.E.S. System."

Lecture Series on Contemporary Economic Issues, 8 p.m., Mineral Industries Auditorium.

torium. Drs. L. E. Fouraker and Thomas Iwand on "Public Spending, Private Spending, and Growth," with Dr. Philip A. Klein as moderator.

Tuesday, April 25

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Time for a Change," by Carol Rosenthal, directed by Nancy Alinkoff.

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. Dr. D. J. Marshall, on "Induced Polarization."

Central Pennsylvania Section, American Chemical Society, meeting, 8 p.m., Room 111 Boucke. Dr. Howard V. Mahnstadt, associate professor of chemistry, University of Illinois, on "Some New Spectro and Electro Analytical Techniques."

University Lecture Series, 8:30 p.m., Schwab Auditorium. James Reston, New York Times Washington Bureau head, on "Behind the Washington Dateline."

Educational movie series of Town Independent Men, HUB assembly room, 12:30 to 1 p.m. and 6:30 to 7 p.m. "Twentieth Century Presents."

Electrical Engineering Seminar, 4:15 p.m., Room 207 Electrical Engineering. C. D. Simmons, Philco Corp., on "Modern High Frequency Transistors."

Wednesday, April 26

Psychology Colloquium, 8 p.m., Room 214 Boucke. Dr. William K. Estes, professor of psychology, Indiana University, on "The Learning of Diagnostic Discrimination."

Chess Club meeting, 7 p.m., HUB card room.

Thursday, April 27

Economics Seminar, 12 noon, HUB dining room "A." Dr. John McCauley, director of research, Bureau of Apprenticeship and Training, U. S. Dept. of Labor, on "Improving the Employability of Unemployed and Underemployed Workers in Economically Depressed Areas."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. T. J. Flautt, The Proctor and Gamble Research Laboratories, on "Structure Determination by High Resolution NMR."

Friday, April 28

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. L. L. Newman, chief coal technologist, U. S. Bureau of Mines, on "Underground Gassification of Coal in the Soviet Union."

Center Stage production of Chekhov's "The Three Sisters," 8 p.m.

Personnel —

(Continued from page one)

been named dean of the College, effective April 1. He has been a member of the faculty since 1938.

Donald P. and David H. Fowler, 1960 graduates in animal husbandry have been named assistant county agents, Donald in Mercer County and David in Bedford. They are twins, and brothers of Richard E. Fowler, who was in county agent work before he entered military service.

Richard N. Jorgensen, associate professor of wood technology, has accepted a position as associate professor of forest products at Michigan State University Cooperative Extension Service, effective July 1.

Study —

(Continued from page one)

foreign professors and will focus on pertinent aspects of the history and the social, political, economic, and educational systems of the country in which the program is located. A faculty member will be in residence with the students and will be responsible for supervision and administration of the program. The Elective Program will comprise one ten-week term each Spring and is expected to get underway in 1962.

Since the student will be registered by the University, no problem of transfer of credits will be involved.

Only students who will be sophomores, juniors, or seniors during the 1961-62 year will be accepted for the Elective Study program, they must have an all-University average of 2.50 or higher, and they must be in good standing, show evidence of maturity, stability, self-discipline, and strong academic motivation.

faculty BULLETIN

Vol. 48, No. 37 April 21, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Broadcasts

A University-organized series of radio broadcasts designed to furnish insight into some of the nation's major problems and developments is currently being carried by 15 radio stations in the State. The series is called "Sounding."

The half-hour programs are produced on tape with the help of many faculty and staff members, under the direction of Gilbert Aberg, radio and television specialist in the department of public information.

To date, programs have been developed on such topics as automation, radiation, automotive safety, reading, American youth, modern jazz, and others. With portable recording equipment, engineers have visited the Automation Lab, Reactor, Speech and Hearing Clinic, Language Institute, Water Tunnel, Automotive Safety Project, Zoology Lab, Poultry Husbandry, Ag Biochem Labs, Physics department, English, Speech, Philosophy, and Economics Departments, and other facilities.

Each program is viewed as a radio magazine built around a social issue, research trend, or campus "movement."

The facilities and staff of University station WDFM have been used exclusively in making up the tapes. Acceptance by major radio stations in Philadelphia, Pittsburgh, Harrisburg, Wilkes Barre, Altoona, York and other cities indicates the professional quality of the productions.

NEWS IN BRIEF

► **ARTISTS:** Henry Schuman, one of the country's outstanding oboists, will be featured with the University Symphony Orchestra, directed by Theodore Karhan, on the final 1961 Artists Series program Tuesday, May 2, at 8:30 p.m.

Tickets will be on sale to the public Saturday and Sunday, April 29 and 30.

The program will include works by Handel-Kindler, Vivaldi, Mozart, and Prokofiev. Schuman will be featured in Mozart's "Divertimento No. 11 K. 251 for Oboe, Horns, and Strings."

A member of the Symphony of the Air, Schuman is also music consultant to Brandon Films, conducts an amateur orchestra in Manhattan, and has concertized not only in this country but in Germany. He has appeared as soloist nationally with Camera Concerti, who were featured on the Artists Series in November, 1959.

► **CUBA:** A panel discussion titled "The Cuban Crisis: International Viewpoint" will be sponsored by the International Relations Club Wednesday, May 3, at 7:30 p.m. in the main lounge of McElwain Hall. The program is open to anyone interested.

Latin American and other foreign students have been invited to make up the panel, and to discuss the issues in Cuba.

► **SENATE:** The University Senate will meet next on Thursday, May 4, at 4:15 p.m. in Room 121 Sparks.

► **JOURNAL:** The first issue of The Journal of General Education to be produced by the University Press has been issued. Managing editor of the Journal is Dr. Howard A. Cutler, assistant to the president for academic affairs.

Members of the Board of Editors of the Journal include Lawrence E. Dennis, vice-president for academic affairs now on leave; Dr. Paul M. Althouse, professor of biochemistry and chairman of the biological sciences in the General Education program; and Dr. Henry W. Sams, head of the department of English.

The first issue contains articles by Dr. F. W. Bateson, Oxford University; C. Stanley Ogilvy, Hamilton College; Albert J. Bernatowicz and E. Alison Kay, University of Hawaii; A. B. Rollins, New York State University College of Education at New Paltz; William J. J. Rooney, The Catholic University of America; and Peter R. Senn, Wright Junior College.

► **MAN:** Dr. Joseph H. Britton, professor of child development and fam-

ily relationships, will be the speaker at the Home Economics Research Seminar, Wednesday, May 3, at 12:30 p.m. in HUB Dining Room "A".

He will speak on "Man and His Years."

► **SOCIAL SCIENCE:** Dr. Rose K. Goldsen, associate professor of sociology, Cornell University, and senior author of the recent book, "What College Students Think," will be the speaker for the spring meeting of the Social Science Research Center Monday, May 1, at 8 p.m. in the HUB dining rooms A-C.

She will speak on "Student Values and the Intellectual Climate of College Campuses."

► **ECONOMICS:** Drs. Will E. Mason and Marvin E. Rozen will be the speakers on the third and final program of the current Contemporary Economic Issues Lecture Series Monday, May 1, at 8 p.m. in the Mineral Industries Auditorium.

"Our International Economic Position: Gold and All That" will be the subject of their talks and Dr. Ervin P. Hexner will be the moderator.

The Series was developed for faculty and students by the Department of Economics to contribute to intellectual interchange and understanding.

► **TELEVISION:** Cooperative television broadcasting with WFBG-TV, Altoona, has been judged successful by Dr. C. R. Carpenter, director of the Division of Academic Research and Services.

The Farm, Home, and Garden program, which was on the air before the cooperative arrangement was effected, began in 1954 and in 1957 became a daily program, accounting for 125 hours of telecasting a year.

Open-circuit programs of instructional credit courses and special offerings from time to time have originated at the University. Courses have been given in music, history, sociology, philosophy, psychology, anthropology, zoology, humanities, personal finance, and economics.

Other programs of informational nature — such as Headlines, Men and Ideas, Key to the Cupboard, and others — have developed at the University. A recent highlight was the telecast of the Russian gymnastics exhibition.

► **FORUM:** The Rev. Chester Marcus, secretary for Racial and Cultural Relations, United Church of Christ, will address a University Christian Association.

(Continued on page three)

Peace corps need seen

IF our central objective is to demonstrate to the world what lasting benefits accrue from democratic, as opposed to autocratic, procedures, we must make a much more sympathetic approach to the peoples who yet are to be convinced of this fact.

"We must mobilize a cultural army of men and women who will make a career of studying the background and traditions of these peoples, who will live with them under their social, economic, and political circumstances, and who will sympathetically represent them to us, as well as representing us to them."

No, these statements were not made on behalf of the present-day Peace Corps. They were written seven years ago by Dr. Franklin B. Krauss, head of the department of Romance Languages, and published in the April 5, 1954, issue of "The Classical Weekly." In the lengthy article in which they appear, "Foreign Languages Face the Future," Dr. Krauss emphasized the magnitude of the problem of achieving international understanding "in this era of unparalleled expansion of nationalism among the so-called backward nations."

Stating the basic causes of worldwide unrest and tension, Dr. Krauss said: "I submit that the key to the problem of world peace in our day quainted with the history and the cultural patterns of men and nations

and in the years ahead is mutual understanding and respect among all peoples rested upon a full, rich, and continuous appreciation of their cultural likenesses and differences.

"If we fail to use this key, all economic sacrifices, all military alliances, all threats of economic boycott or of military reprisal, and all the collective output of modern industry and its gratuitous distribution can at best postpone but will not prevent the holocaust of an atomic war that will engulf the nations and enthrone barbarous despotism everywhere."

In discussing the need for the "cultural army," Dr. Krauss said that "we must make certain that these men and women are of such character, intelligence, and capacity for wide understanding that they will be acceptable to the peoples to whom we send them; that they will not make it their primary objective to sell the American way of life as the best product on the market but instead will carefully and considerately show in what respects our way of life compares and in others contrasts with their own . . ." Dr. Krauss warned that "we must make our voice heard in clear, strong, and convincing tones, not only to those sitting in the plush seats of the Diamond Circle but also to those precariously perched on the benches of the Third Gallery."

To strengthen his thesis concerning the need for improved and more inclusive foreign language studies, Dr. Krauss said: "We must make it our business to become thoroughly acquainted throughout the world, and through a knowledge of their languages to com-

municate with them without benefit of translations or translators."

If mere fluency in speaking and reading should be regarded as the major objective in studying the modern foreign languages, Dr. Krauss feared that this ability would be diverted mostly to promoting the exchange of scientific knowledge, technological information, industrial know-how, all worthy utilitarian objectives, to be sure, yet insufficient for creating international understanding and co-operation.

"However much our spiritually warped age may object, the fact remains that good will between and among nations cannot be bargained for in the market place, or produced in the factory, or formulated and tested in the laboratory. On the contrary, men join hands and move forward together toward a common goal only when inspired by lofty ideas of human relations and when convinced by sympathetic demonstrations of goodness of purpose."

Dr. Krauss asserted that Western man must himself first become thoroughly acquainted with the foundations of his own culture, if he hopes to be able to make it understandable and attractive to the non-Western peoples of the world. He must, therefore, go back beyond Shakespeare, Cervantes, Montaigne, and Goethe to regain this appreciation by reverting to the study of the classical writers of ancient Greece and Rome.

"Only thus will he rediscover the ideas that are at the foundation of his science, and recapture the spirit that produced his social and political institutions, and his moral philosophy. Only thus will he be able, in turn, to understand himself and to interpret his society to peoples who are unacquainted with or suspicious of its underlying principles."

Scholastic actions

PERCENTAGE-WISE, the volume of scholastic actions against students for the fall semester dropped slightly from the previous year, a report from the Office of the Registrar indicates.

Of the 15,353 undergraduates in attendance during the semester, 4,567 (or 29.75%) men and women were dropped from the University, placed on probation, or warned. A year ago 33.66 per cent of 14,216 in attendance faced similar action.

The number of students dropped from the University was 133, or 0.87 per cent of the total. By Colleges, the

three highest were Business Administration (32), Engineering and Architecture (31) and the Liberal Arts (30). Percentagewise, Business Administration posted 1.80, Liberal Arts 1.27, and Chemistry and Physics .79.

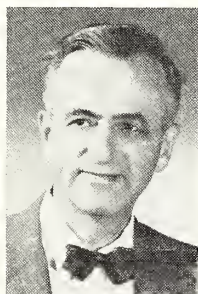
Total actions, in percentages, were heaviest in the College of Engineering and Architecture (34.69), although of 1086 Division of Counseling Students, 58.37 per cent were dropped, warned, or placed on probation. Total actions in the Colleges of Agriculture, Business Administration, and Physical Education and Athletics were virtually equal to those of Engineering, percentagewise.

Scholastic action was taken against 43.34 per cent of the freshmen men

(drops constituted just 1 per cent); against freshmen women 30.00. Of all sophomores, action was taken against 35.92 per cent; juniors, 25.79 per cent, and seniors, 14.67 per cent.

A compilation of All-University averages earned by all bachelor's degree candidates reveals that only 19 students, 14 of them first-semester freshmen, had perfect 4.0 records at the conclusion of the fall semester. The others were fifth semester 2, third semester 2, and second semester 1.

Of the 15,353 students, 11,255 (74 per cent) had All-University averages above 2.00 and 84 per cent above 1.80. Of the first semester freshmen, 61 per cent had averages above 2.00; 77 per cent had averages over 1.6.



Dr. F. B. Krauss

News —

(Continued from page one)

ciation Forum Saturday, May 6, at 8 p.m., in the Helen Eakin Eisenhower Chapel. He will speak on "Africa and Future World Peace."

Rev. Marcus has only recently returned to the United States after a year in Africa.

► **DISTRIBUTION:** A report of the Office of the Registrar enumerating the geographical distributions of the home towns of students enrolled at the University Park campus shows that Allegheny County, with 1405, is the leader for undergraduate students, followed by Philadelphia (875) and Centre (795). All counties are represented; Forest County enrolls the fewest, 7.

Among bachelor degree candidates at Commonwealth Campus, those from Philadelphia County (551) outnumber those other counties, and among associate degree candidates, Luzerne County (147) is the leader.

There are 1699 undergraduates enrolled at University Park from other states and 37 from other countries, and at Commonwealth Campuses there are 29 bachelor degree and 13 associate degree candidates from other states and 4 bachelor degree candidates from other countries.

Of the total of 2054 graduate students at University Park, 712 list their home county as Centre, 507 claim some other state as their home, and 112 are from other counties.

The geographical distribution study was made on 18,430 students, not including those enrolled in part-time Continuing Education classes. In-state students number 15,984, or 87 per cent of the total.

► **BANQUET:** Dr. Maurice L. Sill, director of the India Village Service currently on campus to teach a course in community development in underdeveloped countries, will be the speaker at the initiation banquet of Pi Gamma Mu, social science honorary fraternity, Thursday, May 4, at 6 p.m. in the HUB.

He will speak on "Shramdan and the Peace Corps." Shramdan is an ancient Sanskrit concept referring to voluntary public works.

► **INSTITUTE:** Dr. Vernon M. Albers, chief scientist at the Ordnance Research Laboratory, is co-chairman of the Advanced Study Institute on Underwater Acoustics to be conducted July 31 to Aug 11 at Imperial College of the University of London, England.

The College of Engineering and Architecture will operate the Institute

(Continued from page three)

Loans

Since July 1, approximately \$300,000 in loans have been made to students from monies provided under the National Defense Education Act (\$250,000) and from the sources available before NDEA was passed — alumni, friends, and a variety of groups and organizations.

Loans have been made to 799 students out of more than 1500 who applied. With the exception of \$25,000 which will be used to help students in the Summer Term, no money is now available. Repayments on previous loans are returned to the fund.

Pivot dedication

Walter E. Boyer, instructor of English before his death May 6 last year, is the subject of dedication of this year's PIVOT, the poetry annual published by the Poetry Workshop.

The forthcoming issue, which will be sold next week, contains Boyer's poem, "Along the Mahantongo," and also a poem in tribute to him by a former student, Jon Morse. Boyer was a frequent contributor to PIVOT.

The Poetry Workshop, directed by Joseph L. Grucci, produces PIVOT, which is self-sustaining, with a campus and national circulation of 2,000 copies. Copies will be available on the Mall, in the HUB, and at various other locations on campus.

Another feature of the issue is a tape-recorded interview with Grucci, on the subject of creativity, based on his experiences with student-poets in the Workshop.

TRAFFIC CHANGES

University employees will be affected by changes in traffic regulations at the corner of Shortlidge Road and College Ave. which will be instituted by the Borough of State College within the next month.

No left turns either from Shortlidge onto College or from College onto Shortlidge will be permitted when the new regulations go into effect.

Basic purpose of the changes is to improve traffic conditions at the corner, which have become unusually congested since the improvement of Garner St.

Traffic which normally would make the left turn leaving the campus to go east on College and to Bellefonte will be required to cross College and take Garner St. to either Beaver Ave. or Foster before making a left turn. It is suggested that much of this traffic will do best to use University drive.

The approach to the campus via Shortlidge Road will be from Garner St. after the new plan goes into effect. No left turn from College will be permitted. An alternate suggestion is to use University Drive.

Traffic moving south on Shortlidge Rd. to College will be required to use the correct lane. Traffic which is to turn right onto College will stay in the right-hand lane on Shortlidge; traffic which is to cross College to Garner St. will stay in the center lane.

Personnel Matters

Frank W. Peikert, head of the department of agricultural engineering, has been granted a leave for the periods Aug. 1 to Oct 31 and Mar. 1, 1962 to May 30, 1962. He will visit the agricultural engineering departments of a number of American universities and study the research work on forage and fruit and vegetable mechanization and also the handling of farmstead materials.

Dr. Rigoberto Juarez-Paz, assistant professor of philosophy, will serve as visiting professor of philosophy at the University of San Carlos, Guatemala. He will be on leave for a year, beginning July 1, for the purpose. Although he is a native of Guatemala, Dr. Juarez-Paz studied at the universities of Indiana and Minnesota.

Edwin H. Dale, associate professor of agriculture extension, will retire May 31. He has been associated with the agricultural correspondence work for the past 11 years.

Dr. Dorothy E. Alfke, associate professor of elementary education, and Hazel F. Daniels, assistant professor of elementary education, have been granted leaves of absence for the next academic year to teach elementary grades in the International School in Bangkok, Thailand, a private school for children of English-speaking parents residing there. Dr. Alfke will teach a fourth grade class and to do some experimental work with a science-centered curriculum. Miss Daniels will teach a third grade class and do research in teaching children how to learn.

Earl R. Bordner has retired as associate professor of physics, after more than 37 years of teaching. A graduate of Wabash College, where he also obtained the master of arts degree, he did graduate work also at the University of Illinois and Penn State. He joined the faculty in 1923. For 25 years he was the chief scheduler in the department and for the past six years taught at the High School Science Teachers Institutes.

Dr. Milan Mitrovic, native of Yugoslavia, has been named assistant professor of veterinary science. A graduate of the Scientific Gymnasium at Split, Yugoslavia, he obtained the doctor of veterinary medicine from the University of Veterinary Medicine at Perugia, Italy. He was head of the microbiology department at Dr. Salisbury's Laboratories in Charles City, Iowa, from 1954 until coming here April 1 and prior to that was employed by the Livestock Sanitary Board at Little Rock, Ark.

CALENDAR

Friday, April 28

Spring Week Parade, 6 p.m., University Drive to College Ave.; West on College Ave. to Burrowes Road, north to Pollock Road, and east on Pollock to Shortlidge Rd.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. L. L. Newman, chief coal technologist, U. S. Bureau of Mines, on "Underground Gasification of Coal in the Soviet Union."

Center Stage production of Chekhov's "The Three Sisters," 8 p.m.

Saturday, April 29

Center Stage production of Anton Chekhov's "Three Sisters," 8 p.m.

Sunday, April 30

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Liston Pope, dean of the Yale University Divinity School, on "That All May Be One."

Graduate Student Association Social Bridge, 7:30 p.m., Rooms 212-213 HUB.

Monday, May 1

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Raymond Pepinsky, research professor of physics, on "Some Problems in Scientific Research in a University."

Lecture Series on Contemporary Economic Issues, 8 p.m., Mineral Industries Auditorium. Drs. Will E. Mason and Marvin E. Rozen, with Ervin P. Hexner as moderator, on "Our International Economic Position: Gold and All That."

Social Science Research Center meeting, 8 p.m. (preceded by dessert at 7 p.m.), HUB dining rooms A-C. Dr. Rose K. Goldsen, Cornell University, on "Student Values and the Intellectual Climate of College Campuses."

Tuesday, May 2

Economics Faculty Seminar, 12 noon, HUB dining room "A". Dr. Randall S. Stout, professor of public finance, on "A New Era in Intergovernmental Fiscal Relations."

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. Dr. H. Kuno, on "Igneous Rocks Theories."

Physics Colloquium, 4:15 p.m., Room 117

Osmond. Dr. B. R. Leonard, General Electric Co., Hanford, Wash., on "Subthreshold Fission."

Artists Series, 8:30 p.m., Schwab Auditorium. Henry Schuman, oboist, with University Symphony Orchestra, directed by Theodore Karhan.

Movie Series of Town Independent Men, 12 noon and 6 p.m., HUB Assembly Room. "Alphabet Conspiracy." (One hour)

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. An original one-act play.

Wednesday, May 3

Home Economics Research Seminar, 12:30 p.m., HUB dining room "A". Dr. Joseph H. Britton, professor of child development and family relationships, on "Man and His Years."

Chess Club meeting, 7 p.m., HUB card room.

Varsity baseball, vs. Rutgers, 3:30 p.m.

Gamma Sigma Delta (Agriculture honorary society) banquet, 6:30 p.m., HUB dining rooms A and B. Speaker: Dr. John Ferguson, director, Institute of Public Administration, on "Government and Rural Life."

Thursday, May 4

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. Philip Morrison, professor of physics, Laboratory of Nuclear Studies, Cornell University, on "The Ape at the Typewriter: An Analysis of Chance and Design." Co-sponsored by the department of physics.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Wallace Broecker, Lamont Geological Observatory, Columbia University, on "The Absolute Dating of Carbonate Materials by the C-14 and U-Ra Methods."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Philip Morrison, department of physics, Cornell University, on "Neutrinos Stellar Stability."

University Senate meeting, 4:15 p.m., Room 121 Sparks.

Simmons Lecture Series, 8 p.m., HUB Auditorium. Buddhadeva Bose, professor and head of the department of Comparative Literature, Jadavpur University, Calcutta, on "East Meets West — Modern European Literature in India."

Pi Gamma Mu initiation banquet, 6 p.m., HUB dining rooms. Speaker: Dr. Maurice L. Sill, director of the India Village Service, on "Shramdan and the Peace Corps."

News —

(Continued on page four)

under the auspices of the North Atlantic Treaty Organization, which has authorized a \$24,000 grant to support it.

Dr. Albers' co-chairman is Dr. R. W. B. Stephens, of Imperial College.

Among the eight institute lecturers will be Dr. Paul M. Kendig and Dr. Eugen J. Skudrzyk, professors of engineering research at the Ordnance Lab.

➤ **HORSES:** The annual Penn State Horse Show, sponsored by the Riding Club, will be held at the Lions' Club Show Grounds along Rt. 322 west of State College Saturday, May 6, beginning at 8 a.m. and Sunday, May 7, beginning at 12:30 p.m. There will be 32 classes of competition.

➤ **SIMMONS:** The Simmons Series lecture of Thursday, May 4, will be given by Buddhadeva Bose, currently distinguished visiting professor of comparative literature at New York University. He is head of the department of comparative literature at Jadavpur University, in Calcutta.

Bose will speak at 8 p.m. in the HUB Auditorium on the subject, "East Meets West — Modern European Literature in India." Author of over 100 titles in Bengali, including poetry, criticism, fiction, and children's books, he also wrote, in English, "An Acre of Green Grass." He is considered an authority on Rabindranath Tagore, eminent Indian writer who was a Nobel prize winner in 1913.

The Simmons Series was developed by the department of German in 1947 to honor the late Lucretia V. T. Simmons, who served on the faculty for 36 years, 20 of them as head of the department of German.

faculty BULLETIN

Vol. 48, No. 38 April 28, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

English

NEW students who fail to make a satisfactory showing on the English placement test will be able to get extra "coaching" help in English Comp "O" while they are taking English Comp I, Dr. Henry W. Sams, head of the English department, has announced.

Beginning with the Summer Term, when about 25 freshmen are expected to seek the remedial work of English Comp "O," the course will be given two periods per week without homework assignments and without essays or themes.

The instruction in the course will parallel that given in English Comp I and will be, in effect, a method of tutoring those who are shown to be deficient in English preparation.

"We feel," says Dr. Sams, "that we will always have some students who, though thoroughly competent in other subjects, will come to us with a weakness in English. For them the extra help they may get in the remedial course will be well worth the extra class hours they will need."

The student's schedule will follow the regular pattern, with English Comp "O" added. The course is for non-credit, as previously.

Starting with the Fall Term the course will be given via closed-circuit television, with talk-back provisions.

Dr. Sams explains further that, as far as the English department is concerned, the scheduling of the remedial course by those whose placement test shows an "Re" rating is a matter for

(Continued on page four)

NEWS IN BRIEF

► **SINGERS:** The Penn State Singers will present Henry Purcell's "Dido and Aeneas" Friday, May 12, in two performances in the HUB Assembly Room, at 7:30 p.m. and at 9 p.m.

Raymond Brown, associate professor of music, directs the Singers, a group of 20 men and women students who emphasize choral music of 16th to 18th century. A string orchestra and harpsichord will accompany the Singers.

Soloists for the performances will be Gale Leister, Kay Esslinger, Sandra Sliker, and Samuel Gordon.

Admission will be by complimentary ticket, available on request from the Music Dept., Room 216 Carnegie. In addition to its campus performance before Christmas, the Singers also appeared recently in concerts at the Altoona and Hazleton Campuses.

► **RUSSIA:** Dr. Merle Fainsod, director of the Russian Research Center at Harvard University, will speak before the Political Science Colloquium today (Friday) at 8 p.m. in the Mineral Industries Auditorium.

His topic is "Political Literature in the Soviet Union: Some Recent Developments."

► **POETRY:** Robert Graves, professor of poetry, at Oxford University, will present a program of his poems and also comment on poetry, in an appearance sponsored by the College of the Liberal Arts Wednesday, May 17, at 8:30 p.m. in Schwab Auditorium. No tickets are required.

► **PLAYERS:** The musical show, "Paint Your Wagon," will be the next production of the Penn State Players, on May 11, 12, and 13 at 8 p.m. in Schwab Auditorium.

Tickets are now on sale at the HUB desk.

"Paint Your Wagon" is by Lerner and Loewe, who also wrote "Brigadoon" and "My Fair Lady." The story is set in the California gold rush days.

► **CHOIR:** The fourth annual Spring Concert of the Meditation Chapel Choirs will be given Tuesday, May 9, at 8:30 p.m. in the Helen Eakin Eisenhower Chapel.

James W. Beach is director of the Choirs, which will present a program of the Buxtehude cantata, "Jesu, meine Freude," "Jephthah," an opera-oratorio by Giacomo Carissimi; and the Flor Peeters setting of "Te Deum." Organ solos will be played by William Mastrocola.

Tickets, at no charge, will be available at the Chapel desk beginning May 3.

► **ELIADE:** Two public lectures, sponsored by the department of philosophy, will be given by Dr. Mircea Eliade, professor of the history of religion at the University of Chicago and internationally distinguished author and lecturer.

On Monday, May 8, at 8 p.m., he will speak on "Religious Symbolism" and Tuesday, May 9, at 8 p.m. on the subject, "Myths of Beginnings and End." Both lectures will be given in Room 110 Electrical Engineering.

► **TAGORE:** The Friends of India Association of the University will celebrate the birthday centenary of the eminent Indian writer, Rabindranath Tagore, Nobel prizewinner in 1913, Saturday, May 6, at 7:30 p.m. in the State College Evangelical and Reformed Church. The program will include songs and music composed by Tagore, the presentation of Tagore's work to Pattee Library, and a snack prepared by Indian ladies.

► **FORUM:** A University Christian Association Forum tomorrow (Saturday) will be addressed by Rev. Chester Marcus, secretary for Racial and Cultural Relations, United Church of Christ, at 8 p.m. in the Chapel. He will speak on "Africa and Future World Peace."

► **PHILOSOPHY:** Dr. Paul Bernays, visiting professor of philosophy at the University of Pennsylvania and one of the world's outstanding scholars in the field of mathematical logic, will address the spring meeting of the Western Pennsylvania Philosophical Society tomorrow (Saturday) at 11:10 a.m. in the Nittany Lion Inn Conference Room.

He will speak on "The Difficulties in Formalizing Mathematics." Bernays is now a member of the faculty of the Technische Hochschule at Zurich, Switzerland. He has been a frequent lecturer at the Institute for Advanced Studies, Princeton, N. J.

The meeting will also include at 1:30 p.m. a Symposium on Whitehead's Philosophy of Science, with Donald B. Kuspit, Penn State, Vincent F. Lackner, University of Pittsburgh, and Richard Hutcheson, Allegheny College as leaders.

► **WOMEN:** The annual spring luncheon of the Faculty Women's Club will be held Thursday, May 11, in the HUB ball room at 12:30 p.m. Reservations must be made with Mrs. William Hench by Saturday, May 6, and cancellations cannot be accepted after noon, Tuesday, May 9.

Who is a Penn State Student?

THE Penn State student, as viewed by more than 3,000 members of the Class of 1964, fits no prototype.

For every characteristic enumerated by one or more of the firstclassmen who gave opinions recently to the English Department on the subject, "Who is a Penn State Student?," an equal number believed the opposite to be true.

Dr. Henry W. Sams, head of the department of English, initiated the opinion-seeking project by requesting students in English 1, 2, 3, 12, 16, and 18 classes to write their impressions of their fellow students in the form of an essay. No grading was involved, nor was the student required to sign his essay. He was given only very broad instructions, quoted here in part:

"Who is the Penn State student? After several months at Penn State, you have encountered hundreds of other students, talked at length with dozens, and come to know a few quite well. What kinds of people are they? Or better, what kinds of people do they wish to become . . . You will not be graded in this essay. Its purpose is to help the Faculty visualize more clearly who you are and what you want them to know."

Below are quotes from a few of the papers. It is interesting to note that the subjects most frequently discussed were Conformity, Bigness, Learning and the Degree; Intellectual Atmosphere, and Seriousness.

CONFORMITY

The typical student at the Pennsylvania State University is one who has learned to conform, how to lose himself in a crowd. He has learned from experience that it does not pay to rebel — most times, that is. And then, the few times that he feels free to enjoy himself, the ironclad hand of the University clamps down upon him and says "no." This, then, is the Penn State Student.

When one comes right down to it, "the" Penn State student can't be found; we can see only Penn State 'students.' Perhaps the only thing which all have in common is individuality. In other words, each person by this becomes a minority of one, a minority which, like all others, should be respected. I am not suggesting that rules and policies should be changed or made to vary according to the person to whom they apply. I am only asking that Penn State students not be lumped into one category, and that the rights of the individual, a minority of one, be universally recognized and respected."

What characterizes the Penn State co-ed? The fact that she is so typical of students everywhere who are faced with similar problems and perplexities, struggling for identity while trying to be recognized among 16,000 other students. The queen of the campus is not truth or beauty but confusion.

Fraternity men are great "role" players. They feel that they cannot deviate even a fraction away from the pattern of how a "frat man" should dress, talk, and act . . . Sororities fall into this category also with their nice little members and their cute little words and phrases such as "sharp," "really neat," and "oodles of work." It seems to me that they have all been shipped from a factory which mass produces sorority women and fraternity men.

On the other side of the fence are the Independents — both men and women. To fraternity and sorority members, the "Indies" are a "bunch of clods." . . . "Indies" are less inclined to play the role. There is one role which "Indies" are expected to play, however. That is the "I hate Greeks" role.

Where is this brand of individual? Look around you. He's the fellow sitting next to you drinking that cup of coffee or coke. He's the man banging away at the pinball machine trying to beat it. You don't have any trouble locating such students. They are everywhere. The whole campus is one stereotyped mess. If you don't belong to the crowd you're a nobody. Everybody wants to belong so they dress the same, do the same things as everybody else, cut their hair the same, wear the same dirty sneakers, and do everything else that everybody else does. For this reason there are very few real individuals on the campus. Those that are will not be hard to spot, however, for they stick out like sore thumbs from all the typical people.

INTELLECTUAL ATMOSPHERE

He does not study enough because the academic challenge is absent, and socially he is very adept (sic) because of the excellent facilities which are available to him.

The obvious lack of an intellectual attitude in the student body is one of the most disconcerting problems which anyone can encounter. By the term "intellectual attitude" is meant an application of those eternal principles of life learned in the classroom to an everyday existence; an awareness and curiosity concerning people, events, and great discoveries; and a less blasé approach to academic work generally. The indifference of a few members of the faculty to the students, their problems, and the lack of depth in their respective high school backgrounds, is in part directly responsible for such an attitude in the student.

I think it is up to the faculty to try to motivate us a little more in the direction of broadening our education, and taking full advantage of all the opportunities available to us. We must decide why we've come here before we can find out how to get what we're looking for from Penn State or any other college.

He should be interested in foreign affairs because they might offer an answer to his questions. As an example that he is not interested in public or foreign affairs, last night, March 22, 1961, President Kennedy held a press conference in which he commented on the crisis in Laos. Out of the 400 students in Beam Hall, not over 30 students at any one time watched the program. I then submit to you, unless something is done to promote some interest in the opposite direction, that the consequences of world affairs might be placed in grave danger.

Perhaps I have been unduly or unfairly harsh in my sketches of typical Penn State students. But I honestly feel that there is a scholastic atmosphere that is lacking here. Basically the people at Penn State are friendly, casual, fun-loving, but lacking in a true scholastic attitude.

LEARNING and the DEGREE

Many complaints arise from the student. "Why does an engineer need English? Why does a chemist need German? Why does an education student need math? People say the University should only offer courses which relate to his major. A person comes to college to get an education.

The average Penn State student is not at college because of a personal desire to be educated, but because modern society demands that its citizens be educated. He is a practical person who realizes that college education will benefit him later in life. Because he has a practical outlook on life, he wants to know the reason for everything he does. . . . He doesn't enjoy "intangibles" (sic) such as art, serious music, and literature because they provide no immediate practical reward for him. His only demand from college is a moderate proficiency in his trade.

When it is time for bluebooks or finals the students remind me of a gigantic sponge. They sit down and try to soak up all the knowledge they can the night before the bluebook. Then after it's over, they sit down and wring themselves out, and go back to playing cards and shooting the bull.

The Penn State student wants to learn how to think and use his head intelligently. This cannot be done if the professor does the student's thinking for him.

Although Penn State does not provide a large intellectual atmosphere, this type of student manages to create his own by reading, studying, and seeking out similar types of students.

He comes into class, sits down and takes notes, tries to learn the material as was given and takes the bluebooks without maybe even once raising a question or actually thinking about what he has learned.

Although the word "education" cropped up everytime "goals" were mentioned, in many cases the word "learning" never entered into the discussion. The word "education" hardly ever was correlated with intellectual growth, personal creativity, discovery of new concepts and ideas. A "college education" is often only a social education — it is a means of attaining "experience in living" and of what is commonly known as maturity. It is regarded as essential to becoming an acceptable member of adult society.

FACULTY

The blame for this lack of seriousness can't be placed entirely on the student body. A tightening-up policy has to be adopted by the faculty or administration.

Professors would make poor Penn State students.

BIGNESS

A great majority of the students must adapt themselves both psychologically and physically to Penn State. Those who have never been away from their home or their friends are quite lost for a while. They will think that the campus is the largest, most inhuman thing in the world. Once they become better acquainted with their fellow students, the campus becomes an intimate part of their life.

The bigness of Penn State is a handicap in that there is an extremely large gap between the student and his faculty.

Each student I'm sure would prefer smaller classes, but each realizes also the extreme crowded conditions.

Much of the indifference must be credited to the classes. Large lecture courses usually fail to inspire great interest in the student and television courses are even less interesting. A small riot would result if the three hundred students in a lecture class tried to have a discussion such as those which created interest in my high school classes. When a teacher knows his students as seat numbers only, a close student-teacher relationship cannot develop. It is important to some pupils that the professor care about them as a person rather than a percentage point on a grade scale.

STANDARDS

Penn State does not have an extremely high scholastic rating because it must take in most of the State's students since it is a state university. The State students who

come here frequently can not get into a better school, (scholastically speaking). They do not desire to work and study hard. Their real interest is not an education.

The school is easier in admittance requirements than most of the nation's universities.

There are four main categories into which almost all the students attending Penn State can be placed. Penn State is the choice of mediocre students who are unable to "get in" elsewhere. This university also attracts those students who are too needy to be able to go anywhere else, so, rather than attend a school of low calibre, they attend this school which has a fairly high academic rating and is still within their financial means. Those students who put off applying to a college until the last minute will apply to State because they know that a state endowed university is supposedly easier to be accepted into. The last group, and by all means the best group, is composed of those dutiful students who have appraised many colleges by means of their catalogues and by visitations, and have sought entrance to Penn State as the answer to their quest for education.

WEEKENDS

Each Penn State student lives for the weekends. If he is one who studies hard, he will say, "At least I can get caught up on last week's work." If he favors social life, his weekend is spent visiting frats, enjoying a jazz show . . .

Usually, Saturday night is the most anticipated time of the week. Some students anticipate it so much that they make every night a Saturday night. The television on the first floor of my dormitory always has its usual customers.

On Sundays we usually get together for a few hours to do something that we didn't have time to do during the week. On Sunday evenings when there was snow on the ground we would take walks through campus admiring the beauty of the campus covered with snow. After the walks we would get some doughnuts at a snack bar and then come back to the dorm for tea and doughnuts. At this time we would have great discussions. We'd talk about the kind of man we wanted to marry, about our families and friends and high schools, and many times about religion. These discussions have taught us a lot about the different religions. These discussions have also brought to our attention that all of us have a different concept of the ideal man, or the man of our dreams. But we all have one requirement for this man that is the same: our ideal man must be intelligent.

SERIOUSNESS

But the Penn State student realizes best of anyone that this university is not a country club. Most of the students come to Penn State for an education, they realize that they have to keep up with their studies in order to get anywhere . . . On the whole I think Penn State students know what they are doing, and do not come up here for pleasure.

A Penn State student is one who procrastinates. He has a date until 11:30 to keep up with his social life, then goes back to the dormitory to study, but first he has to have something to eat. By the time he is ready to sit down to prepare work for his next day's classes, it is 12:30. At this time he feels as if he has to complain to his friends about his boring classes the next day, and about the hundred pages of preparation for these classes. This complaining may take as long as a half hour, making it one o'clock when he finally settles down to work. By this time he decides it is too late to learn anything and leaves his hundred pages of reading until the night before the test.

The best way to describe a Penn State student would be to name him a shallow-thinker and a social climber.

PERSONALLY

Penn State students are versatile, hard working, and open-minded individuals. The study habits of a student are directly related to the curriculum in which he is enrolled. The curriculum that a student chooses will decide how much studying must be done.

The Penn State student is a perfect example of today's college-going youth. He typifies the attitudes and philosophy of this generation — this modern, security-minded, unambitious generation. The Penn State student is here to learn how to earn cabbage.

The Penn State student is serious, business-like, fearful, efficient, determined and, at times, aggressive. I have yet to meet a "warm" personality among them.

There is the playboy type of a student that is at State simply to attend social functions. He is in what he thinks is the simplest curriculum. This type of individual should not go to college. There are many applications turned down because someone likes to go to parties.

The Penn State student is an intelligent young adult, struggling to grow in maturity so that he can face the challenges of not only the future, but also those of past generations. At the same time he is trying to prolong the joys of youth.

Says Dr. Sams of the results of the project: "We have made no attempt at a systematic, quantitative analysis of the essays. They are interesting to us as indications of what our students are thinking about, and of the nature of some pedagogical problems that we of the faculty must solve. By way of general impressions — I should say only that the experience of reading some two thousand of the papers has for me been a heartening one. There are fine talents, of many different kinds, among our students. They demand the very best that we can give them."

CALENDAR

Friday, May 5

Political Science Colloquium, 8 p.m., Mineral Industries Auditorium. Dr. Merle Fainsod, Harvard University, on "Political Literature in the Soviet Union: Some Recent Developments."

Center Stage production of "Three Sisters," by Anton Chekhov, 8 p.m., Conference Center.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Richard D. Mathieu, instructor in aeronautical engineering, on "Shock Wave Structure in a Fully Ionized Gas."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. John Steinhart, Carnegie Institute, Washington, D.C., on "Structure of the Earth's Crust."

Saturday, May 6

Meeting of Western Pennsylvania Philosophical Society, Nittany Lion Inn Conference Room. Principal talk, 11:10 a.m., by Dr. Paul Bernays, on "The Difficulties in Formalizing Mathematics." Symposium on Whitehead's Philosophy of Science, 1:30 p.m.

University Christian Association Forum, 8 p.m., The Chapel. Rev. Chester Marcus, secretary for Racial and Cultural Relations of the United Church of Christ, on "Africa and Future World Peace."

Penn State Riding Club Horse Show, 8 a.m., Lions Club Show Grounds. Also Sunday, beginning at 12:30 p.m.

Varsity athletics: lacrosse, vs. Syracuse, 10 a.m.; golf, vs. Georgetown, 1:30 p.m.; tennis, vs. Navy, 2 p.m.; baseball, vs. Pennsylvania, 2:30 p.m.

Center Stage production of "Three Sisters," by Anton Chekhov, 8 p.m., Conference Center.

Friends of India celebration of Rabindranath Tagore's 100th birthday, 7:30 p.m., Evangelical and Reformed Church.

Sunday, May 7

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Chester Marcus, secretary of Racial and Cultural Relations, United Church of Christ.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, Uni-

versity chaplain, on "Reflections in a Mirror."

Graduate Student Association Social Bridge, 7:30 p.m., Room 212 HUB.

Monday, May 8

Lecture, sponsored by the department of philosophy, by Dr. Mircea Eliade, University of Chicago, on "Religious Symbolism," 8 p.m., Room 110 Electrical Engineering.

Faculty Luncheon Club, 12 noon, HUB dining room "A". Paul Mazza, State College attorney, on "The State College Housing Survey."

Tuesday, May 9

Concert by Meditation Chapel Choirs, directed by James W. Beach, 8:30 p.m., The Chapel.

Lecture by Dr. Mircea Eliade, University of Chicago, on "Myths of Beginnings and End," 8 p.m., Electrical Engineering, sponsored by department of philosophy.

Educational movie, sponsored by Town Independent Men, 12:30 p.m. and 6:30 p.m., HUB assembly room. Bell Telephone movie, "Music in Motion," with Telephone Hour orchestra and violinist Zino Francescatti.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Christmas Spirit," by Lila Smyser, directed by Joanne Pangonis. A children's play of interest to adults also; children are invited.

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. J. L. Haas, Jr., on "Vapor Pressures and Telethermal Deposits."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Rolf G. Winter, assistant professor of physics, on "Time of a Quasi-Stationary State."

Wednesday, May 10

Psychology Colloquium, 12 noon, HUB dining room "A". Dr. Werner Honig, Denison University, on "Prediction of preference, transposition, and transposition reversal from the gradient of stimulus generalization."

Chess Club meeting, 7 p.m., HUB card room.

English Colloquium, 7:30 p.m., Nittany Lion Inn. Leslie Fiedler, literary critic and professor of English, University of Montana.

NDEA French Institute movie, 8 p.m., Room 209 Home Economics South. "Lady Paname," starring Louis Jouvet and Suzy Delair.

Thursday, May 11

Faculty Women's Club annual spring luncheon, 12:30 p.m., HUB ballroom.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Louis Schmerling, Universal Oil Products Co., on "Some Recent Observations on the Condensations of Chloroalkanes with Aromatic Hydrocarbons in the Presence of Friedel-Crafts Catalysts."

Meeting of faculty of the College of Home Economics, 4:15 p.m., Room 209, Home Economics South.

Biological Sciences Lecture, 4:15 p.m., Room 112 Buckhout. Dr. F. C. Steward, professor of botany, Cornell University, on "Carrots and Coconuts; Some Investigations in Growth."

Players' production of the musical "Paint Your Wagon," 8 p.m., Schwab Auditorium.

Friday, May 12

Penn State Singers' presentation of Henry Purcell's "Dido and Aeneas," 7:30 and 9 p.m., HUB Assembly Room. Admission by complimentary ticket, available at the department of music, Room 216 Carnegie.

Players' production of "Paint Your Wagon," 8 p.m., Schwab Auditorium.

Saturday, May 13

University Christian Association Forum, 8 p.m., Chapel Lounge. Paul Lehman, professor of Christian Ethics, Harvard University, "On a Context for Conscience: Ethics for the Christian in the 20th Century."

Cosmopolitan Club Cabin Party, 2:30 p.m., Civil Engineering Camp. For transportation, if needed, call R. K. Datta, UN 5-2802.

English —

(Continued from page one)

the College in which the student is enrolled. Should a student not be scheduled for English Comp "O" even though he did poorly on the placement test, he will not be barred from English Comp 1 by the department.

During the Summer Term the course will be offered Tuesday and Thursday in the third period. In the Fall Term, the scheduled times are Wednesday and Friday in the third period and Tuesday and Thursday in the eighth period.

faculty BULLETIN

Vol. 48, No. 39

May 5, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, May 12

Penn State Singers' presentation of Henry Purcell's "Dido and Aeneas," 7:30 and 9 p.m., HUB Assembly Room.

Players' production of "Paint Your Wagon," 8 p.m., Schwab Auditorium.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Sabri Ergun, project coordinator, Solid State Physics, U. S. Bureau of Mines, on "Solid State — Physical Studies of Coal."

Center Stage production of "Three Sisters," 8 p.m., Conference Center.

Saturday, May 13

University Christian Association Forum, 8 p.m., Chapel Lounge. Paul Lehman, professor of Christian Ethics, Harvard University, "On a Context for Conscience: Ethics for the Christian in the 20th Century."

Cosmopolitan Club Cabin Party, 2:30 p.m., Civil Engineering Camp. For transportation, if needed, call R. K. Datta, UN 5-2802.

Players production of "Paint Your Wagon," 8 p.m., Schwab Auditorium.

Center Stage production of Chekhov's "Three Sisters," 8 p.m., Conference Center.

Varsity tennis, vs. Syracuse, 2 p.m.

Sunday, May 14

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Paul Lehmann, Harvard Divinity School, on "Remember Who You Are."

Men's Glee Club concert, 3 p.m., Schwab Auditorium.

Graduate Student Association social bridge, 7:30 p.m., Room 212 HUB.

Monday, May 15

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Hugh M. Davison, professor of education research, on "The New Public School Curriculums Will Change the Character of the University." Tickets obtainable at the HUB desk.

Academic Year Science Institute Colloquium, 7:30 p.m., Room 119 Osmond. Dr. Harold Behrens, research chemist, University.

(Continued on page four)

NEWS IN BRIEF

► **FORUM:** Dr. Paul Lehman, professor of Christian Ethics, Harvard University, will address the weekly University Christian Association Forum Saturday, May 13, at 8 p.m. in The Chapel lounge. He will speak on the topic, "On a Context for Conscience: Ethics for the Christian in the 20th Century."

► **PLAY:** Arnold Wesker's play "Roots" will be performed by an all-Broadway cast at the Hillel Foundation Saturday, May 13, at 8:30 p.m. Tickets are on sale at the HUB and at Hillel. The play was voted best of the season in England.

► **CHEMICAL:** Dr. Ralph G. Pearson, of Northwestern University, will be the featured speaker of the 270th meeting of the Central Pennsylvania Section of the American Chemical Society Wednesday, May 17, at 8 p.m. in Room 119 Osmond. He will speak on "Crystals Field Theory."

► **CONCERT:** The annual spring concert of the University Chapel Choir and Symphony Orchestra will be given Saturday, May 20, at 8 p.m. in Schwab Auditorium.

All seats are reserved for the concert; tickets (free) may be obtained at the HUB desk beginning Monday, May 15.

The program includes works of Bach, Orlando Gibbons, Jacob Handl, William Shuman, Samuel Barber, Paul Creston, Johannes Brahms, and Zoltan Kodaly. Soloists are Raymond Brown, Martha Morris, Peter La Manina, and Sonja Brown.

► **WANTED:** From July 10 to Sept. 1 a Professional Development Program sponsored by the Shelter Research and Study Program of the College of Engineering and Architecture will attract about 15 faculty members of other universities.

Some of these visitors have indicated an interest in renting houses or apartments during this time. Anyone who is interested in renting to these scientists and engineers and their families should contact Mrs. Barbara Smith, 133 Hammond Bldg., UN 5-6394.

► **CREDIT:** The Pennsylvania Dairy-men's Association has praised the Agricultural Extension Service for its program of education in the proper use of antibiotics in the treatment of dairy cattle.

In a resolution adopted at its annual meeting in January, the Association pointed out the hazards of im-

proper handling of these drugs and thanked the Service for its "outstanding and prompt performance in the development and execution of an educational program relative to antibiotics."

► **FORESTRY:** The School of Forestry has been invited to offer an annual in-service training school for professional foresters engaged in the Co-operative Forest Management Program of the Northeastern States and the Forest Service of the U. S. Department of Agriculture.

Some 220 men are engaged in this service activity in the Northeastern states.

H. H. Chisman, professor of forestry, is in charge of planning the program.

► **ART:** "Is Art Photography? Or, the Instant Mona Lisa" is the subject of a humorous talk on art to be given by William Hanson, instructor in art, before the honorary chemical society, Phi Lambda Upsilon, Thursday, May 18 at 8 p.m. in Room 214 Boucke. The public is invited.

► **LANGUAGES:** The new "Anthology" and the five "Manuals of Applied Linguistics," of which Dr. Simon Belasco is general editor and co-author, will serve as recommended basic linguistics texts for the 74 Language Institutes sponsored under the National Defense Education Act. Dr. Belasco is associate professor of Romance languages and director of the French program on campus.

Dr. Thomas F. Magner, head of the department of Slavic languages, is editor of the Russian manual; Dr. Albert Valdman, formerly in Romance language here and now at Indiana University, is editor of the French manual. Manuals were also developed in German, Italian, and Spanish.

► **GARDENS:** The student branch of the American Society of Agricultural Engineers will do garden tilling with a power tiller at reasonable rates for faculty members and State College residents. Weekday arrangements can be made in addition to early evening and Saturdays. Purpose of the project is to raise funds for student club activities. Call UN 5-7792 to make arrangements.

► **PARTY:** The Cosmopolitan Club will hold its annual spring Cabin Party Saturday, May 13, at Civil Engineering camp, 2:30 p.m. Transportation will be provided if necessary; call R. K. Datta, UN 5-2802.

(Continued on page three)

Senate Minutes

Minutes of the Meeting of May 4, 1961

The University Senate met at 4:15 p.m. on Thursday, May 4, 1961 in Room 121 Sparks Building with President Eric A. Walker presiding.

The minutes of the April 6 meeting which were printed in the Faculty Bulletins for April 14 and 21, 1961 were corrected as follows: Change the last paragraph on page 4 of the Faculty Bulletin for April 14, 1961 (last paragraph on page 1084 of the official minutes) to read:

J. J. Schanz, Chairman of the Senate Committee on Educational Policy, in commenting on the previous discussion concerning fiscal examinations under the term system, stated that the Educational Policy Committee felt it would like to go through one year under the term system before making any recommendations. Therefore, the proposal on final examinations appearing in Appendix "B" would not be presented for immediate action. However, it has been referred to the Administrative Committee on Resident Education Procedures. He then presented the informational report, which appeared in the agenda as Appendix "B", calling attention to the two types of examinations listed in the report, namely, "The Intermediate Examination" and "The Baccalaureate Examination." He moved that the Senate receive this report. The motion was seconded and passed.

Change the title on page 2 of the Faculty Bulletin for April 21 (page 1085 of the official minutes) to read:

An Information Report of the Subcommittee on the Improvement of Instruction of the Senate Committee on Educational Policy

On page 3 of the Faculty Bulletin for April 21 (page 1091 of the official minutes) add the names of the committee that prepared this report as follows:

Paul M. Althouse, Ralph E. Armington, Henry A. Finch, Katherine H. Fisher, Robert Scholten, Lawrence L. Werboff (chairman)

The minutes as corrected were approved. One hundred fifty-nine senators signed the roll.

Communications of University Officials

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. M. Elias (V. L. VanHorn, Jr.), P. W. Fletcher (W. E. White), D. H. Ford (F. J. Ball), J. J. Gibbon (K. V. Manning), C. F. Hager (R. W. Iverson), Ossian MacKenzie (W. M. Hench), W. G. Mather (H. K. Dansereau), R. W. Lindsay (John Hoke), R. C. Miller (G. W. Sherritt), N. A. Norton (W. K. Murphy), N. C. Pendered (C. J. Schaefer), E. B. Richie (W. R. Geelan), C. W. Stoddart, Jr. (Barbara Hoepner), Thomas Wartik (R. G. Ascah), J. B. Washko (J. D. Harrington), and W. R. Weisman (Francis Hyslop).

The following communication was received from Ben Euwema, Dean of the College of the Liberal Arts:

At the March 2 meeting of the Senate, Dr. Walker (as chairman of the Senate) referred to the Liberal Arts faculty a letter from Professor Leon Gorlow, recommending "that psychology be added to the list of disciplines from which the undergraduate chooses in order to fulfill the social science requirement in all liberal arts curricula; and) . . . that some branches of psychology . . . be applicable toward meeting the biological science requirement."

At its meeting on April 13, the Liberal Arts faculty voted to accept the recommendation of its Planning Committee not to make any changes in the basic liberal arts requirements for graduation at this time. This means that psychology will remain available as an elective.

A communication from J. E. Miller, Scheduling Officer, listed the following dates for the Spring Semester, 1961 as approved on July 1, 1960:

Saturday, May 27, 1961 — Spring Semester Classes End 12:05 p.m.

Sunday, May 28, 1961 — Free Day to Prepare for Examinations

Monday, May 29, 1961 — Spring Semester Examinations Begin 8 a.m.

Tuesday, June 6, 1961 — Spring Semester Ends 9:50 p.m.

Saturday, June 10, 1961 — Spring Semester Commencement

(no change from original calendar)

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1961-1964 were read by the secretary as follows:

Agriculture — F. M. Mallotte, J. K. Pasto, O. A. Schmidt, L. D. Tukey.

Business Administration — J. F. Bradley, H. A. Cutler, R. D. Pashek, R. B. Saylor.

Chemistry and Physics — R. C. Ascah, N. C. Deno, J. A. Dixon, J. R. Hayes, C. H. Blanchard to replace Joseph Jordan 9/17/61-3/16/62.

Education — G. J. Free, K. W. Hylbert, Helen I. Snyder, D. J. Willower.

Engineering and Architecture — P. F. Hallock, P. B. Lovett, C. G. Reen, R. K. Vierck, J. W. Caldwell to replace J. A. Fox 7/1/61-6/30/62, D. F. White to replace A. D. Brickman, 7/1/61 - 6/30/62.

Home Economics — J. H. Britton, C. B. Broderick, Mary Fuqua, Joan Gordon.

Mineral Industries — L. T. Bissey, J. W. Hunt, H. J. Read, H. D. Wright.

Liberal Arts — Deborah S. Austin, J. A. DeNovo, Lois B. Hyslop, W. S. Smith.

Physical Education and Athletics — Martha A. Adams, E. E. Baer, C. N. Sykes, G. N. Thiel.

Graduate School — I. V. Brown, R. R. Kountz, Stuart Patton, H. D. Zook.

Reports of Standing Committees

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the INFORMATIONAL REPORT OF THE DEFINITION OF ASSOCIATE DEGREES which had been distributed with the agenda as Appendix "B". He elaborated on the report and stated that after further study by the Committee on the action taken at the February 9 meeting of the Senate the Committee felt that the oral amendment to the motion was incorrect. The motion as passed on February 9, 1961 is as follows:

An Associate Degree Program is not necessarily the same as the first two years of any baccalaureate degree program.

He moved that the report in Appendix "B" be received for the information of the Senate. The motion was seconded and passed. The report is as follows:

Information Report on the Definition of Associate Degrees

At the February 9, 1961 meeting of the University Senate, the Senate Committee on Educational Policy presented a general definition of associate degree programs as offered at Penn State. After amendment from the floor, a definition was approved by the Senate.

The Committee wishes to emphasize in this report its purpose in requesting that the Senate place a formal definition in the record. Furthermore, the Committee wishes to make quite clear what it considers an associate degree to signify at Penn State.

In all consideration of associate degree programs that have, or may, come before the Senate and University administration, it is desirable to have an approved general definition of an associate degree program to serve as a basis for decisions on matters such as admission, 800 numbered courses, curriculum design, general education content, and approval of new programs. The Educational Policy Committee has encountered at frequent intervals in recent years a wide variation in individual interpretation of what is an associate degree program. This is to be expected, since it reflects the variation to be found in associate degree programs offered at different educational institutions.

The intent of the Committee, therefore, was to define the associate degree program as it now exists at The Pennsylvania State University. The definition proposed was such that it would encompass all existing programs. Furthermore, the definition was intentionally couched in general terminology to provide maximum freedom for the introduction of new programs of the same type as now exist.

In its definition the Educational Policy Committee excluded any programs which might be considered to be below collegiate level. However, recognizing the special purposes of the programs and the type of student enrolled, the Committee accepted the inclusion of courses in the 800 series that are not baccalaureate in character. The Committee felt that there would be general Senate agreement in favor of excluding work below the collegiate level.

The final objective of the definition was to distinguish between associate degree programs which are complete programs designed to meet specific career requirements and those associate degree programs which offer a broad range of courses such as are found in junior college curriculums, or any combination of courses usually found in the first two years of baccalaureate programs. The Educational Policy Committee believes that associate degree programs at The Pennsylvania State University as currently offered and approved by the Senate and Board of Trustees are career-oriented and terminal in nature. However, the Committee approves of those features in the programs which under special circumstances permit students to transfer between associate degree programs and baccalaureate degree programs.

The amended definition which was passed by the Senate on February 9 does not make this clear cut distinction between the two types of programs. It states: "An Associate Degree Program is not necessarily the same as the first two years of any baccalaureate degree program." The inclusion of the word "necessarily" implies that the associate degree program at Penn State is normally the first two years of a baccalaureate program but exceptions are permissible. Under this definition, all associate degree programs currently offered are exceptions to the general definition.

The Committee feels that many members of the Senate did not realize when the rewording was proposed from the floor as an oral amendment that the meaning of this sentence was reversed from intended by the Educational Policy Committee. This is unfortunate since it defeats the original purpose of providing a basis for policy decisions concerning the type of associate degree program now offered.

If members of the University wish to consider the development of more general two year degree programs or to recognize the completion of two years of a baccalaureate degree program, the Committee on Educational Policy feels that these programs should be considered separately and not as

(Continued on page four)

Leaves Announced

► **REMBRANDT:** Dr. Martin Weinberger, distinguished professor of art and architectural history, will be the speaker for the initiation banquet of Phi Beta Kappa Wednesday, May 17 at the Nittany Lion Inn.

He will speak on "The Greatness of Rembrandt."

► **SCHOLARSHIP:** In memory of her husband, the late Leland S. Rhodes, who taught at the University from 1919 until 1955, Mrs. Rhodes has established a scholarship to aid and encourage a junior student in civil engineering.

The scholarship will provide \$200 each year beginning with the junior year.

Mr. Rhodes died Jan. 11, 1958.

► **RADIATION:** Dr. Harold Behrens, research chemist, Institute of Nuclear Physics, University of Chile, will speak on "Introduction to Radiation Chemistry," before the Academic Year Science Institute, Monday, May 15, at 7:30 p.m. in Room 119 Osmond.

He will also speak on "Chemical Effects of Radiation" the following day, May 16, at 4:15 p.m. in Room 111 Boucke.

NASA associateships

Additional research associateships for theoretical research have been made available by the National Aeronautics and Space Administration since the creation of the Institute for Space Studies as an extension of the Goddard Space Flight Center.

The program of research associateships is administered for NASA by the National Academy of Sciences - National Research Council.

Included are appointments in solid earth physics, meteorology, physics of the upper atmosphere and the ionosphere, atomic and electronic interaction, plasma physics, astrophysics, gravitational astronomy, and cosmology and relativity.

The regular postdoctoral resident associateships are open to those who have recently received their doctorate, ordinarily not more than four years beyond the granting of the degree. Senior research associateships are open to well established investigators normally at least five years beyond the doctorate. Stipend for the regular associateship is \$9,500 per year, with adjustment for suitable research experience beyond the doctorate. Stipends for the senior associateship will be determined in terms of the individual's institutional salary, with a proper dislocation allowance.

Programs are given at both the Goddard Center in Greenbelt, Md., and at the Institute for Space Studies in New York. The New York program will be carried out in close cooperation with the universities in the area.

Requests for application forms or additional information should go to: Fellowship Office, National Academy of Sciences - National Research Council, 2101 Constitution Ave., N.W., Washington 25, D. C.

ANNOUNCEMENTS have been made of grants by various agencies to aid faculty members for study, research, or teaching in this country and abroad. Leaves of absence for these and other members of the faculty have also been announced. Fulbright grants have been awarded to **Dr. John M. Anderson**, head of the department of philosophy; **Dr. Vernon W. Myers**, associate professor of physics; and **Dr. Leon Gorlow**, associate professor of psychology.

Dr. Anderson will serve as guest-professor of philosophy at the Free University of Berlin for the 1961-62 academic year. He will lecture on American philosophy, the history of ideas in America, and the philosophy of art, deliver two regular courses of lectures on American Thinkers and Theory of Art and Artistic Creation and conduct seminars. He had a Fulbright lectureship grant in 1956 when he went to the University of Otago, Dunedin, New Zealand.

Dr. Myers will also be on leave during the next academic year to lecture at the University of the Philippines, conducting graduate courses and supervise master's theses. He is currently on leave at the Brookhaven National Laboratory for experimental neutron physics research.

Dr. Gorlow will be on leave from January to September, 1962, to lecture in the field of personality theory at the School of Social Studies, Tampere, Finland, and at the University of Helsinki. After five months in Finland he will travel in Europe for three months visiting psychology departments of leading European universities.

The Rev. Preston N. Williams, assistant University chaplain, has been granted a Danforth Foundation fellowship and will spend 11 months at the Graduate School of Arts and Sciences at Harvard. He will work under two of the nation's leading theologians, Dr. James Luther Adams and Dr. Reinhold Niebuhr for research on Islamic religion and on problems of natural law and ethics.

Dr. Harold E. Dickson, professor of history of art and architecture, will be on leave from January 1 to June 9 next year to complete a monograph on George Gray Barnard, sculptor, on whom Dickson has been engaged in research for several years.

Seymour T. Brantner, associate professor of industrial education, has been granted a leave from January 1 to June 11, 1962, to complete work on his doctor of education degree at the University of Pittsburgh.

Dr. Hans Neuberger, head of the department of meteorology, will spend

four months, from September to January, in Pakistan as technical assistant to the government. He will assist the Pakistani Meteorological Service in establishing a training institute in meteorology and geophysics. He will develop a research program in climatology and other areas of meteorology and prepare syllabi and teaching procedures. He will also visit research institutes in Switzerland, Germany, France, Austria, England, and Holland in his return.

Dr. Joseph Jordan, professor of chemistry, will spend five months at the Swiss Federation Institute of Technology in Zurich, engaged in research on the chemistry of molten salts, and will give a series of lectures on instrumental methods of analysis. He also plans to visit various universities and research institutes in the Scandinavian countries, England, Holland, France, Italy, and West Germany.

Eunice M. Deemer, instructor in clothing and textiles, will do work toward her doctorate, majoring in clothing and textiles, for the year beginning July 1. She will be at Penn State.

Mrs. Margaret K. Spangler, assistant librarian, will be on leave for the first six months of next year visiting university libraries throughout the country.

Dr. James V. Frick, associate professor of speech, will be on leave from Sept. 17 to March 17, 1962, to do research in speech education, much of it on campus. He will also visit several speech authorities in the Midwest.

Edward M. Elias, director of the York Campus, will continue graduate studies at the University of Maryland while on leave from August 1 to February 1. He is a candidate for a master of arts degree in adult education.

Amos E. Neyhart, administrative head of the Institute of Public Safety, will be in Yugoslavia from September through November to aid the government to establish 19 training centers in the field of traffic. He has conducted similar programs in Cuba and Canada.

Calendar —

(Continued from page one)

sity of Chile, Santiago, Chile, on "Introduction to Radiation Chemistry."

College of Education faculty meeting, 4:15 p.m., HUB assembly room.

Tuesday, May 16

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Benjamin Chinitz, Pittsburgh Regional Planning Association, on "The Pittsburgh Economics Study: Some Tentative Conclusions."

Academic Year Science Institute Colloquium, 4:15 p.m., Room 111 Boucke. Dr. Harold Behrens, University of Santiago, Chile, on "Chemical Effects of Radiation."

College of the Liberal Arts faculty meeting, 4:15 p.m., Room 121 Sparks.

Town Independent Men film program, 12:00 and 6:00 p.m., HUB Assembly Room. "Race for Space" (55 minutes).

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. A. F. Moench, on "Modification of the Hot-Wire Method for Determination of Thermal Conductivity."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Mrs. Que Versus the Navy," by the production staff of the Theatre 111 class.

Wednesday, May 17

Meeting of Central Penna. Section, American Chemical Society, 8 p.m., Room 119 Osmond. Dr. Ralph G. Pearson, Northwestern University, on "Crystals Field Theory."

Phi Beta Kappa initiation banquet, Nitany Lion Inn. Dr. Martin Weinberger, on "The Greatness of Rembrandt."

Chess Club meeting, 7 p.m., HUB card room.

Thursday, May 18

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Leonard Newman, Brookhaven National Laboratory, on "Liquid Anion Exchange."

Phi Lambda Upsilon meeting, 8 p.m., Room 214 Boucke. William Hanson, instructor in art, on "Is Art Photography? — or The Instant Mona Lisa."

Friday, May 19

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby.

Center Stage production of "Three Sisters," 8 p.m., Conference Center.

The scheduled meeting of the Graduate School faculty May 18 has been cancelled.

Senate —

(Continued from page two)

a part of existing policies and procedures for the associate degree. In fact, if such programs were authorized, the Committee would strongly recommend the use of new nomenclature that would make a clear distinction between such programs and the present associate degree programs.

Respectfully submitted,
Educational Policy Committee
J. J. Schanz, Jr., Chairman

Following the receipt of the report President Walker briefly discussed the history of associate degree programs and the varied uses and definitions of the associate degree. He requested that the Committee on Educational Policy prepare a report on the various kinds of associate degrees that are presently in use in America in order that in the Fall of 1961 the Senate might decide what kinds of associate degree programs should be offered at The Pennsylvania State University. Mr. Schanz in accepting the charge of the President stated that the Educational Policy Committee will prepare a factual report for the Senate's consideration together with the Committee's recommendations.

Mr. Schanz then presented the PROPOSAL ON TERM LOAD AND TOTAL GRADUATION CREDIT REQUIREMENTS which had been distributed with the agenda as Appendix "C". This report is as follows:

Proposal on Term Load and Total Graduation Credit Requirements

For some time the number of semester credits required for graduation and the maximum number of credits allowable per semester have caused much discussion. New and expanding areas of knowledge together with the obvious necessity of retaining much existing instruction has placed every curriculum in a "credit load" bind. The increasing requirements of professional training and of general education allegedly have forced many curricula into semester over loads or presented them with the alternative of five-year programs.

The projected change to the term system with its resultant curricular and credit modification and adaptations has forced a re-examination of what constitutes a proper "credit load." In undertaking this review, the Senate Educational Policy Committee assumes that existing courses will require the same quantity and quality of performance

under the term system as under the semester system. The E. P. C. also adopts the existing definition of a credit as stated in *Baccalaureate Degree Programs*, I, 1960-1961, p. 230, which translated into a term ratio means a credit should require 4 hours and 30 minutes per week of an average student's time. The distribution of that time between class activities (such as lecture, recitation, laboratory, field trip, etc.) and outside preparation will, naturally, vary from course to course. Finally, in undertaking this review, the E. P. C. has attempted to be mindful of the accrediting requirements of the professional fields and yet keep the total graduation credit requirements of the various baccalaureate programs within tolerable limits.

Within the framework mentioned above, the E. P. C. recommends the following for Senate indorsement:

1. The total normal term credit load for full time undergraduate students is 8 to 13 credits. Any student registered for more than this must have college approval in each individual case.
2. The total normal range of credits for 12 term baccalaureate programs is 124 to 150.

Respectfully submitted,
Educational Policy Committee
J. J. Schanz, Jr., Chairman

Mr. Schanz moved that recommendation number one be adopted. The motion was seconded and passed.

In presenting recommendation number two Mr. Schanz pointed out that at the present time the University does not specify either the minimum or maximum number of credits required for a baccalaureate degree; consequently the proposed action would be setting a new precedent. It was his belief that if the Senate were to set up such limits the individual Colleges would still be free to determine their own programs within the stated limits. He moved adoption of the recommendation. The motion was seconded and passed.

The President announced that annual Reports, *IN DUPLICATE*, of all Senate Committees will be due at the June 1 meeting of the Senate.

The next regular meeting of the Senate will be on Thursday, June 1, 1961; the agenda will be distributed on May 18, 1961. The meeting adjourned at 4:47 p.m.

Robert G. Bernreuter
Secretary

faculty BULLETIN

Vol. 48, No. 40

May 12, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Summer programs

On August 15 this year, there will be more than 5,000 people on campus attending a conference, seminar, symposium, institute, or the Grand Assembly of the Rainbow Girls.

At the same time there will be thousands of regular students attending the first Summer Term, plus unnumbered transients.

August 15 probably illustrates as well as any day in the summer the varied and intensive use made of University facilities and personnel to help Pennsylvanians and visitors from other states educationally.

In addition to the Rainbow Girls, who have become well-known on the campus, there will be in attendance that day: (1) teachers of high school journalism; (2) credit union personnel; (3) scientists interested in microchemical techniques; (4) labor union personnel; (5) engineers concerned with hydrodynamics; (6) an executive management group; (7) 4-H Club leaders; and (8) flower growers.

The 3,000 Rainbow Girls constitute the largest single group for which the University plans during the summer, but planning for small groups of 25 and more is just as complex as it is for thousands. For any specific program perhaps hundreds of people — faculty, staff, and administration — will be involved in some way or other, but the concentrated efforts of the Conference Center staff, headed by Wayne R. Bechdel, and on Ag Hill of the Short Courses and Conferences staff, directed by Fred C. Snyder, are

(Continued on page two)

NEWS IN BRIEF

► **PRIZES:** The American Academy of Arts and Sciences will award three \$1,000 prizes to authors of unpublished monographs, one each in humanities, social sciences, and physical and biological sciences.

A monograph is defined by the Academy as "a scholarly contribution to knowledge, too long for an article in a learned journal and too specialized for a general book."

Prizewinners will be expected to make their own arrangements for publication. Final date for receipt of manuscripts is Oct. 2, 1961, and prize-winners will be announced in December.

Full details may be obtained by sending a stamped self-addressed envelope to the Committee on Monograph Prizes, American Academy of Arts and Sciences, Little Hall 33, Harvard University, Cambridge 38, Mass.

► **ELECTION:** Election of University trustees by delegates of agricultural and industrial societies of the Commonwealth will take place Thursday, June 8 at 12 noon in the Hetzel Union Building. Six trustees are elected by representatives of county agricultural societies and six by county industrial societies.

University faculty and staff members are reminded that they may not take part in these elections, according to the by-laws of the Corporation.

► **TUITION:** Pennsylvania students and their parents pay 54.3 per cent of the cost of higher education in tuition and fees compared to only 18.4 per cent for Californians.

The U. S. Office of Education furnished the data for a study by the National Planning Association, based on information from all public and private institutions of higher learning.

In the Commonwealth, gifts and endowments furnished 17.7 per cent of the higher education cost; State and local tax sources, 22.8 per cent; and Federal taxes, 2.6 per cent. The national average for State and local tax sources is 43.7 per cent, nearly double that of Pennsylvania.

► **CONCERT:** The University Chapel Choir and the Symphony Orchestra will combine to present a concert Saturday, May 20 at 8 p.m. in Schwab Auditorium.

All seats are reserved for the concert. Ticketholders are reminded that seats will be reserved only until 7:50 p.m., at which time all unoccupied seats will be released to non-ticket holders. It is also pointed out that, by

custom, a voluntary contribution will be asked for because the concerts are not completely subsidized.

The program will include Bach's "Bleib bei uns"; Brahms' "Gesang der Parzen Opus 89"; Kodaly's "Te Deum", and selections from the program which the Choir will present on its 1961 European Tour this summer. These include works by Gibbons, Jacob Handl, Schuman, Barber, and Creston.

Mrs. Willa Taylor and James Beach will conduct the choir. The orchestra will participate with the Choir in the Bach, Brahms, and Kodaly numbers. George Ceiga, University organist, and Barry Brinsmaid, teacher of piano, will assist.

Soloists include Martha Morris, Sonja Brown, Peter LaManna, and Raymond Brown.

► **COMMENCEMENT:** An estimated 2,860 degrees will be granted at Commencement Exercises, Saturday, June 10.

The exercises will be held at 10:30 a.m. in Beaver Stadium.

In case of rain, three ceremonies will be held in Recreation Building: at 10:30 a.m., students in the Colleges of Engineering and Architecture and of Mineral Industries and all those receiving associate degrees will be in attendance; at 1:30 p.m., Agriculture, Education, Home Economics, and Physical Education students are scheduled; and at 3:30 p.m., those in Business Administration, Chemistry and Physics, and the Liberal Arts will receive degrees. Advanced degree candidates will attend with the Colleges in which they completed their major.

► **BOOKS:** An exhibition, titled "Banned Books," is being held currently in Pattee Library and will continue during the month of May.

Displayed are books from pre-Christian centuries to the present which have been banned by various authorities because of the fear of the ideas expressed in the books.

In addition to the books, various illustrations, such as that of the rack used to torture authors who refused to recant their ideas, are displayed.

► **GUIDE:** A guide for study by adult discussion groups throughout the Commonwealth has been written by four members of the faculty and published by the Center for Continuing Liberal Education.

Titled "Design at Work: Its Forms
(Continued on page two)

(Continued from page one)

and Functions," the publication was produced by Edward A. Adams, assistant professor of art; David Van Dommelen, instructor in home art; George Pappas, associate professor of art education and art; and Edwin W. Zoller, professor emeritus of art, who was editor.

► **INSTITUTE:** More than 370 mathematics and science teachers in Pennsylvania high schools will attend the In-Service Institute to be held on various University campuses during the next academic year. The program is supported by the National Science Foundation. William H. Powers, director of continuing education in Chemistry and Physics, is in charge of the program.

► **OFFICE:** Within two or three weeks, the Faculty Office Study underway in MacAllister Building will be completed. Faculty members who have not done so are invited to see and comment on the office designs under study. The offices are currently occupied by members of the speech and Slavic language faculties. The area on the first floor of MacAllister is open from 9 a.m. to 5 p.m.

► **LITERATURE:** The 5th annual Pennsylvania Contemporary Literature Conference to be held here July 3 to 21 will bring to the campus such eminent writers as Malcolm Cowley, John Ciardi, Margaret L. Coit, Richard L. Gehman, James Dugan, Alice Cramcr, Betty Finin, Mildred Savage, and Shirley Watkins.

Expected to enroll about 80, the Conference will be concerned with fiction, biography, criticism, article-writing, poetry, playwriting, and writing for children.

Dr. Stanley Weintraub, assistant professor of English literature, is in charge of arrangements. Chairman of the Conference is Dr. L. S. Lingenfelter, chairman of the department of English at Millersville State College, where the earlier conferences have been held.

NOTICE

High pressure steam lines will be shut off for various periods from Wednesday, June 8, to Friday, June 11, to permit construction of a new line and the interruption may be of importance to laboratories in some buildings. Low pressure steam lines will not be affected.

Departments having equipment which depends on high pressure steam should contact H. E. Byers, head of the division of utilities, UN 5-5412, if the interruption of service would present a problem.

More leaves announced

DR. KENT FORSTER, professor of European history, and Dr. Neal Riemer, professor of political science, have received Fulbright awards for lecturing abroad and plan to spend the year in Austria.

Dr. Forster will lecture at the University of Vienna. He served as a Fulbright lecturer on international affairs at the University of Helsinki in Finland, in 1956-57, and was guest lecturer in history at the University of Copenhagen in 1957.

Dr. Riemer will lecture in the field of American studies at the University of Innsbruck. He received a Rockefeller Foundation fellowship award in political science in 1958-59, and did research on the orienting concepts underlying modern democratic theory.

Dr. L. Aileen Hostinsky, associate professor of mathematics, will serve as visiting professor of mathematics at Mount Holyoke College during the next academic year and from July 1, 1962 to Dec. 31 will do research in abstract algebra at Yale.

Robert H. Holtzman, assistant professor of education has received a Danforth Foundation Teaching Study Grant and will work on his doctor of education degree at the University of Illinois. He has been given a leave from Sept. 1 to May 31.

Dr. Harry L. Krall, professor of mathematics, plans to spend part of a six-month leave next year in Europe, visiting mathematics departments in many universities. He will also continue research studies in polynomial theory. The leave begins March 26, 1962.

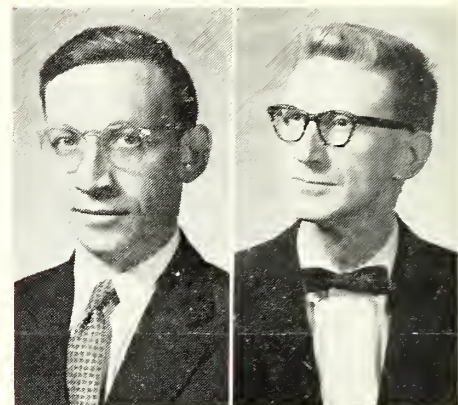
Dr. Thomas Smyth, Jr., assistant professor of entomology, has been granted a leave of absence for the next academic year to do research in insect neuro-physiology at the University of Glasgow, Scotland, working with Dr. Graham Hoyle.

Dr. Ronald L. Hicks, associate professor of journalism, has been named visiting professor at the University of Utah for the 1961-62 academic year and will be on leave. He plans to continue his research in cooperative advertising.

Dr. George N. Raney, assistant professor of mathematics, has been granted a leave to serve as visiting associate professor at Wesleyan University, Middletown, Conn., next academic year.

Preston D. Peightal, Jr., instructor in history, who holds a University Fellowship, will be on leave beginning July 1 for a year to continue work on his doctorate.

W. Paul Anderson, instructor in dairy science extension, will be on leave for a year to work for his master of science degree in dairy husbandry at the University of Wisconsin.



Riemer

Forster

Summer programs —

(Continued from page one)

most closely concerned with the physical arrangements of the meetings.

In the months of June, July, August, and September, an estimated 26,000 will visit University Park for meetings of one kind or another, not including the thousands who come annually on their own to see various campus attractions. The colorful flower displays in the Test Gardens on Ag Hill alone will attract 40,000 visitors.

In addition to non-credit conferences and seminars, which are educational programs in the broadest sense, other programs are offered to those who wish credit but are not able to spend a full ten-weeks term on campus. For them, workshops and conferences which meet many hours a day for a few weeks fit their schedules well. Such workshops this summer will be given under 400 and 500 level courses in Home Economics Education, Institution Administration, Conservation Education, Journalism, English, and Elementary Education.

One of the major problems of planners is finding rooms large enough for meetings of the larger groups. Only Recreation Building, Schwab Auditorium, the HUB ballroom (banquets and dances only), the Stock Judging Pavilion (which will be converted to a theatre very shortly), and the Skating Pavilion, can accommodate 400 people or more. Rooms 121 and 10 Sparks seat just about 400, and Rooms 110 EE and 119 Osmond hold over 300. Nor are these facilities necessarily available at all times, because the resident instruction program comes first.

Items of interest

Publications

MCKINLEY, D. H., business administration, revision of the book, "Your Bank," authored originally by Dr. George L. Leffler, late assistant dean of the College of Business Administration.

THEODORSON, G. A., sociology, a 600-page book titled, "Studies in Human Ecology," published by Row, Peterson and Co.

Arts

BEITTEL, KENNETH, art education, a stone-ware vase exhibited in the ceramic category of the Annual Decorative Arts and Ceramics Exhibition, Wichita, Kan.

CEIGA, GEORGE, organist, compositions "Rondo" and "Sonatina" for Woodwind Quintet and Hammond organ; also "Sanctus," composed for University Chapel Choir.

DUNLOP, J. W., music education, guest conductor of the U. S. Air Force Band, at the annual meetings of the American Band Masters Association in Long Beach, Calif.

PAPPAS, MARILYN, art education, a wall hanging titled "Approach to Nauset: Orleans" in the textile category of the annual Decorative Arts and Ceramics Exhibition, Wichita, Kan.

PHILLIPS, M. J., Ogontz, exhibit of oil paintings in the Collector's Choice Art Show, sponsored by the Arts Council of the YMWHA, Philadelphia.

Elected or Appointed

ALBRIGHT, G. H., architectural engineering, appointed to serve on the Programs Planning Committee of the Building Research Institute.

ANDREWS, FRANCES M., music education, appointed member of the Fine Arts Committee, Pennsylvania Department of Public Instruction.

BOWMAN, J. D., industrial engineering, elected vice president of the Central Pennsylvania Chapter of the Society for the Advancement of Management.

CONE, J. F., bacteriology, re-elected secretary-treasurer of the Pennsylvania Approved Dairy Laboratory Directors Association.

DEASY, G. F., geography, elected president-elect of the Pennsylvania Academy of Science.

DEVINNEY, R. N., Allentown Campus, a judge at the 15th annual National Intercollegiate Debate Tournament at West Point, N. Y.

EICHE, R. E. and ZUBROD, J. G., Altoona Campus, members of the 13-man evaluation team which evaluated the Williamsburg, Pa., high school.

GRIESS, PHYLLIS R., geography, appointed to the Editorial Committee of the Pennsylvania Academy of Science.

HOWELL, B. F. JR., geophysics, elected second vice-president of the Seismological Society of America.

HUDSON, G. R., education, elected secretary of Division 2, the Association of Counselor Education and Supervision, American Personnel and Guidance Association.

JOHNSON, EVAN, mathematics, elected chairman of the Allegheny Mountain Section, Mathematical Association of America.

KOUNTZ, R. R., sanitary engineering, appointed member of the Harry E. Jordan Scholarship Committee of the American Water Works Association.

MCDERMOTT, R. E., forest management, appointed to a Special Planning Committee of the National Society of American Foresters to study professional goals for the next decade.

MILLER, E. W., geography, appointed to the Membership Committee of the Pennsylvania Academy of Science.

QUIGGLE, DOROTHY, chemical engineering, elected first vice-president of Sigma Delta Epsilon, national graduate women's scientific fraternity.

REEN, C. G., civil engineering, appointed to a departmental committee dealing with education and training of highway engineering personnel of the Highway Research Board, National Academy of Sciences-National Research Council.

SCHRADER, W. J., accounting, appointed to the Accounting Theory Committee of the American Accounting Association.

TAYLOR, B. P., Penn State Foundation, re-elected to a three-year term on the Council of Financial Support for Higher Education of the American College Public Relations Association.

TORKELSON, GERALD M., education, appointed to the editorial board of the Audio Visual Communication Review for three years.

WATROUS, G. H. JR., dairy manufacturing, elected president of the Pennsylvania Approved Dairy Laboratory Directors Association.

WEIDHAAS, E. R., engineering graphics, elected to the national executive committee, division of engineering graphics, American Society for Engineering Education.

WEISS, M. J., education, appointed educational consultant to the editorial and sales departments of Bantam Books.

WELLINGTON, A. M., counselor education, elected to the executive committee of Division 4, Student Personnel in American Teacher Education, of the American Personnel and Guidance Association; also reelected to the editorial board of APGA.

Lectures and Talks

ALLGOOD, MARY BROWN, commercial consumer services, a talk on "Demonstration Techniques" at Immaeulata College.

CEIGA, GEORGE, organist, a lecture-recital for the Hammond Organ Society, Lewistown, on "The Symbolism in Bach's Musical Language as Expressed in the Choral Preludes of the Orgelbucklein."

CLEWETT, R. L., marketing, the 17th annual Parlin Memorial Lecture sponsored by the Philadelphia chapter of the American Marketing Association.

COOK, F. H., business law, a talk before the investor's committee of Edison Electric Institute, Boston, on "Effect of Payout Ratios on Common Stock."

DIXON, J. A., chemistry, a talk on "High Molecular Weight Hydrocarbons and Other Fluids as van der Waals' Liquids," at the Midyear Meeting of the Division of Refining, American Petroleum Institute, Houston, Texas.

GRANATA, M. C., Allentown, a talk on "Communist Strategy" before the Lehigh Valley Post, Society of American Military Engineers.

HARNETT, A. L., physical education, a talk on "The Responsibility of the School Nurse in Health Education and Counseling," at the annual School Nurse Institute in Johnstown.

HARRIS, D. B., psychology, a lecture at the Reading Workshop, Defiance College, on "Reading and Creativity."

HEIDE, E. E., New Kensington, a talk on "Attitudes Toward Higher Education" at a meeting of the Quaker Valley P.T.A.

HOWELL, B. F., JR., geophysics and geochemistry, lectures on "Origin of the Continents" and "Geophysical Measurements" at the University of Kentucky, as visiting scientist.

JOHNSTONE, H. W., JR., philosophy, on leave at Trinity College, Dublin, a talk before the Societas Philosophica Fennica in Helsinki, Finland, on "The Philosophy of C. S. Pierce."

KOCHANOWSKY, B. J., mining, a talk on "Angle Drilling" at the 44th Annual Convention of the National Crushed Stone Association, at Miami.

KOUNTZ, R. R., sanitary engineering, a talk before the Juniata-Mifflin County Boroughs Association on "Municipal Authorities, Yesterday and Tomorrow."

LOWENBERG, MIRIAM E., foods and nutrition, a talk on "Nutrition for the Growing Years," at the Virginia Dietetic Association.

MORGAN, WINONA L., child development and family relationships, a talk on "The Home Economist Looks at the Nation's Families," at the annual meeting of the Delaware Home Economics Association.

MOURANT, J. A., philosophy, a series of talks at the Second Annual Spring Adult Institute of Agudath Aehim Congregation, Altoona, from Mar. 29 to May 24, on Nietzsche, Communism, James and Dewey, Existentialism, and Contemporary Religious Philosophy.

MUELLER, E. W., physics, a lecture at the Sixth annual regional seminar of the Chicago-Western chapter, American Society for Metals, on "Physical Properties and Direct Observation of Surfaces."

— a talk before scientists of the Argonne National Laboratory on "The Field Ion Microscope as a New Research Tool in Metallurgy."

— a talk at the banquet of the 15th annual Eastern Colleges Science Conference at Syracuse University on "New Developments in Field Ion Microscopy."

NIEBEL, B. W., industrial engineering, a talk on work sampling techniques before the New York-Pennsylvania chapter of the American Institute of Industrial Engineers.

O'BRIEN, H. J., speech, a talk at the 6th annual AFL-CIO National Conference on Community Services on "The Mandate of Community Leadership."

PELTON, W. C., security, a talk on "The Jungle Curtain," May 11 at the Blain, Pa., Lion's Club.

PERKINS, H. W., Wyomissing, a talk on "New Dimensions in Higher Education" at a meeting of the Reading, Pa., Rotary Club.

PRYBYLA, J. S., economics, a talk on "Private Enterprise in the Soviet Union," before the Penn State Agricultural Activities Honorary.

SWARTZ, F. M., geology, a lecture titled "Ordovician-Silurian and Early Devonian Facies, Conditions of Deposition, and Paleogeography of the North Central Appalachians," at the summer conference on the Stratigraphy and Structure of the Appalachians at American University, June 13.

VAN HORN, G. A., agricultural journalism, a talk on "Developments in Mass Communication" at a meeting of the Naval Reserve Research Co. 4-4, State College.

VEON, DOROTHY H., education, a talk at the Eastern Business Teachers Association convention on "Achieving Excellence in the Teaching of Shorthand" and also at U. of North Carolina Woman's College on "Improved Business Communications: More than a Hot Rod in Business."

WATERS, R. H., transportation, a talk on the need of motor carries for trained management personnel before the Pennsylvania Motor Truck Association's annual convention.

WEIGERT, K. M., industrial engineering, a lecture on High Temperature Brazing at the American Welding Society chapter meeting in York, Pa.

(Continued on page four)

Items of interest —

(Continued from page three)

WEYL, W. A., physical sciences, addresses at five New York State local sections of the American Chemical Society, at Towanda, Potsdam, Syracuse, Poughkeepsie, and Binghamton.

Articles and Papers

ALEXANDER, A. J., English, an article, "A Modern Hero: The Nongenie," in the April issue of Film Culture Magazine.

At the 61st meeting of the Acoustical Society of America, papers by the following Ordnance Lab staff members: E. J. Skudrzyk, M. T. Pigott, D. C. Whitmarsh, G. P. Haddle, and J. S. Snowdon.

At the April meetings of the American Association of College Registrars and Admissions Officers, papers by M. L. Zeigler, Student Affairs Research, on "Equipment Used in Evaluation and Selection of High School Students" and by W. S. Dye, data processing, on "Management View of Problems to be Encountered in the Transition to Electronic Processing."

At the 6th Biennial Conference of the National Art Education Association, papers by Kenneth Beittel, "Problems of Methodology and Design in Art Education Research"; Paul Edmonston, "A Methodology for Inquiry into One's Own Studio Processes and Its Implications for Teaching."

At the meetings of the Western Pennsylvania section, American Association of Physics Teachers, papers by K. V. Manning and Marsh W. White, physics, on "Some Demonstration Experiments in Electric Fields" and "The Curriculum for Undergraduate Physics Majors," respectively.

At the Chicago meeting of the Society of American Microbiologists, papers by L. E. Casida, Jr., and E. H. Ludwig, bacteriology.

CARNAHAN, H. L., and HILL, HELEN D., Pasture Lab, an article on "Cytology and Genetics of Forage Grasses" in Botanical Review, Vol. 27, No. 1.

CORSO, J. F., psychology, a paper at the annual meeting of the Eastern Psychological Association, on "Bodily Position and Auditory Thresholds."

DUNCAN, R. L., mathematics, a paper on "A Class of Additive Arithmetical Functions," at a meeting of the Allegheny Mountain Section of the Mathematical Association of America.

EAKIN, J. H., agricultural extension, an ar-

ticle on "Education Sells Ag-Lime" in the April issue of "Rock Products."

HOBBS, D. F., Jr., family relations, a paper titled "The Relation between Role-Standard and Level of Marital Adjustment," at the Groves Conference on Marriage and the Family at Detroit.

HOOGENBOOM, ARI, history, an article, "Thomas A. Jenckes and Civil Service Reform" in the March issue, Mississippi Valley Historical Review.

HUTTON, H. K., education, an article, "Thesis English" in the April issue, Journal of Higher Education.

HYLBERT, K. W., education, a paper on "The Recruitment and Selection of Stu-

dents for Rehabilitation Counselor Preparation Programs," at the American Personnel and Guidance Association convention.

KAUFMAN, J. J., economics, a paper on "Railway Working Rules: An Environmental Interpretation," before the Mississippi Valley Historical Association.

— an article in the April issue of Illinois Business Review, on "The Problem of Chronic Unemployment."

KELLER, E. C., JR., genetics, and KENNEY, E. S., reactor, a paper titled, "Radioactive Fallout at University Park, Pa., 1957 to 1959," at the Gettysburg meeting of the Pennsylvania Academy of Science, to be published in the Academy's proceedings.

CALENDAR

Friday, May 19

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. John J. Naughton, University of Hawaii, on "Some Aspects of Volcanic Gas Equilibria."

Center Stage production of "Three Sisters," 8 p.m., Conference Center.

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby.

Public debate, Penn State vs. King's College, on subject "Resolved: That the U. S. Should Adopt a Program of Compulsory Health Insurance for all Citizens," 8 p.m., HUB Assembly Room.

Saturday, May 20

University Chapel Choir - University Symphony spring concert, 8 p.m., Schwab Auditorium.

Varsity baseball, vs. Pittsburgh, double-header, 1:30 p.m.; varsity golf, vs. Cornell, 1:30 p.m.; varsity track, vs. Quantico Marines, 1:30 p.m.

Center Stage production of "Three Sisters," 8 p.m., Conference Center.

Graduate Student Association Square Dance, 9 p.m., HUB Ballroom, music by "Keystone Four." For faculty and graduate students.

Sunday, May 21

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Edmund A. Steimle, professor of practical theology, Mt. Airy Lutheran Theological Seminary, on "No Proxies."

Monday, May 22

Faculty Luncheon Club, 12 noon, HUB dining room "A". Dr. Elton Atwater, political science, on "What is Left of Kennedy's Foreign Policy." (Tickets obtainable at the HUB desk.)

Tuesday, May 23

Geophysical Seminar, 3:15 p.m., Room 121 Mineral Industries. P. M. Lavin, on "The Mechanism of Earthquakes as Revealed in Model Studies."

Varsity tennis, vs. Cornell, 3:30 p.m.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Eny Winkle," by David Raher, directed by Robert Wolff, graduate assistants in theatre arts.

Wednesday, May 24

Psychology Colloquium, 12 noon, HUB dining room "A". Dr. Joseph Grosslight, professor of psychology, on "Vocalization Training in Minah Birds."

NDEA French movie, with English subtitles, "Miquette et sa mere," 8 p.m., Room 209 Home Economics South.

Chess Club meeting, 7 p.m., HUB card room.

Thursday, May 25

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. R. G. Parr, Carnegie Tech, on "Recent Advances in Quantum Chemistry."

Spring Semester Classes end, 9:50 p.m.

Varsity baseball, vs. Delaware, double-header, 1:30 p.m.

New Products Show, exhibition of Thermofax systems and related processes, of interest to faculty. Nittany Lion Inn Assembly Room, all day.

faculty BULLETIN

Vol. 48, No. 41

May 19, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

Faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Appropriation

A detailed report on the actions taken by the University in support of its request for the 1961 appropriation of approximately \$23 million was given this week by T. Reed Ferguson, director of University Relations.

The report outlines the actions in two headings: (1) before the Legislature convened for its current session; (2) actions since the session opened. The following are the specific methods used in advancing the University's cause to the Governor, the Legislature, and the public.

PART 1

1. A formal and detailed report in writing to the Governor's Budget Secretary.
2. Pre-session conferences with the Governor, his Secretary of Administration, and his Budget Secretary.
3. Two-day briefing sessions on this campus with the members of the House and Senate Committees on (1) Agriculture, (2) Appropriations, and (3) Education — on three separate occasions.
4. Numerous conferences with key members of the leadership of the House and Senate, both here and in Harrisburg.
5. Continuation of a Penn State Advocates' program, through which more than 5,000 business, professional, civic and alumni leaders in all parts of Pennsylvania were briefed on the appropriation, and pledged to urge favorable action by their own representatives in the House and the Senate. Personal contacts with these Advocates were followed by a continuing flow of specific information about the appropriation for use at the local level.
6. Staff members have made numerous speeches before public and private bodies, and have kept up a continuous correspondence on the subject with Pennsylvanians throughout the Commonwealth.
7. The President testified before the Governor's Committee on Education, and there provided the factual information which

(Continued on page three)

NEWS IN BRIEF

➤ **PEACE CORPS:** Interest in the Peace Corps program among Penn State students is evidenced by the requests for application forms. The Office of the Dean of Women received requests for more than the 100 forms available and 62 men students have obtained forms from the office of the Dean of Men.

Filing a form does not constitute an obligation on the part of the student but is designed to enable the Peace Corps to obtain information about the number and qualifications of those now prepared to volunteer for service.

University Park has been designated as one of the locations where interviews will be conducted to aid in making tentative selection of volunteers for overseas duty.

Players shows

SEASON tickets for productions of the department of theatre arts and Penn State Players will be available to patrons for the first time beginning with shows in the fall.

The season ticket plan was developed, according to Dr. Walter H. Walters, head of the theatre arts department, to establish the habit of theatre-going and to affirm the position of the theatre in the cultural importance of the university and community.

The plan provides that the patron may see any five performances of Players shows for \$4.00 or may use his book of five coupons to take a party to any one performance. Coupons will be exchanged at the HUB or at the door for tickets for specific shows.

The season tickets will be on sale during the week of registration in the fall term.

Dates for the 1961-62 season have been announced as follows:

Center Stage: Oct. 27-28; Nov. 3, 4, 10, 11, 17, 18, 24, 25; and Dec. 1, 2.

Center Stage: Jan. 12, 13, 19, 20, 26, 27; Feb. 2, 3, 9, 10, 16, 17.

Schwab: Feb. 8, 9, 10.

Center Stage: April 6, 7, 13, 14, 27, 28; May 4, 5, 11, 12, 18, 19.

Schwab: May 10, 11, 12.

The shows will be selected from among the following productions:

Agatha Christie's "Witness for the Prosecution."

William Saroyan's "The Cave Dwellers."

Shaw's "Man of Destiny."

Samuel Beckett's "Krapp's Last Tape."

Tom Jones and Harvey Schmidt's "The Fantasticks."

Thornton Wilder's "The Matchmaker."

Peter Shaffer's "Five Finger Exercise."

Shaw's "Man and Superman."

"Once Upon a Mattress," by Jay Thompson, Marshall Barer and Dean Fuller, with music by Mary Rodgers.

➤ **COFFEE:** The College of Home Economics will hold a coffee hour for graduating seniors and their families on Commencement Day, June 10, from 8:30 to 9:30 a.m. at the Living Center in the Home Economics Building.

➤ **BLUE BAND:** The Penn State Concert Blue Band, directed by James W. Dunlop, professor of music education, will present its Spring Concert Sunday, May 28, at 3 p.m. from the steps of Pattee Library.

In case of rain, the program will be given in Schwab Auditorium.

The program will include a variety of music, with selections from Verdi, James Burke, Brahms, Leonard Bernstein, Terig Tucci, Charles Carter, David Bennett, Charles Minelli, Richard Rodgers, and John Philip Sousa.

➤ **OFFICERS:** Officers for the coming year have been announced by the Social Science Research Center. They include Dr. Roy C. Buck, professor of rural sociology, as chairman of the executive committee; Dr. Marjorie East, head of the department of home economics education, as vice chairman; Dr. E. Willard Miller, head of the department of geography, as secretary.

Dr. John H. Ferguson, director of the Institute of Public Administration, and Dr. Lester P. Guest, professor of psychology, were elected to the executive committee. Dr. Frederick R. Matson, assistant dean for research of the College of the Liberal Arts, is administrative director of the Center.

(Continued on page four)

Employment

PROVISIONS of President Kennedy's Executive Order 10925, which establishes the Committee on Equal Employment Opportunity, are of interest to departments which may hire employees of any status for work on Federal Government contracts.

In many respects the provisions of the order are similar to those of the Pennsylvania Fair Employment Practice Act. The order states that:

"The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color, or national origin.

"Such action shall include, but not

(Continued on page two)

Employment —

(Continued from page one)

be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

"The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause."

The order differs from the Pennsylvania Fair Employment Practice Act in that it provides that in all solicitations or advertisements for employees to work on federal contract projects a statement must be made that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

Of especial interest is the requirement that communications to professional societies or to placement agencies concerning job vacancies must contain the statement, if the job is on a project under Federal Government contract.

The Employment Division, 304 Old Main, which coordinates all help-wanted advertising, will be glad to advise on the requirements to conform to this act.

Dedication



Wherry

Ralph H. Wherry, professor of insurance and head of the department of commerce, has been honored by La Vie, senior class annual.

In making the dedication of the 1961 La Vie to Wherry, the editors wrote: "Recognized

as an outstanding teacher, he is popular with the students who schedule his courses. He is popular with other students, too, who come to know him through his work with student groups and organizations."

Wherry is chairman of the Senate Committee on Athletics, adviser to *Parmi Nous* and *Skull and Bones*, both campus societies of student leaders, and *Phi Chi Theta*, professional commerce fraternity. He was chosen for the national Alumni Award of Alpha Kappa Psi, national professional fraternity in business administration, in 1958.

Surprised Dean



Dr. Grace M. Henderson, dean of the College of Home Economics, was pleasantly surprised at a regular faculty meeting recently when she was presented with a scroll by Dr. Winona L. Morgan (left) on behalf of the faculty. The scroll, signed by 100 staff members and graduate students, said, "In recognition of the completion of 15 years as head of Home Economics on Aug. 1, 1961, we salute Dean Grace M. Henderson for her dedicated service to higher education and to the preparation of professional leaders — both men and women — in the field of home economics."

Report made

AN ad hoc committee appointed some months ago by L. E. Dennis, then vice-president for academic affairs, has submitted a report on its deliberations concerning a library education curriculum for Penn State.

The committee, headed by Dr. C. O. Williams, also included Ralph W. McComb, Dr. A. Bruce Sutherland, Dr. Harrison T. Meserole, Dr. Donald Ford, Dr. Franklin A. Miller, and T. Stuart Goas.

1. The committee recommends, until such time as conditions would change to suggest reopening of the question, that the University should not enter the field of library education now for the following reasons:

a. Although a need for librarians does exist, enrollments in library education curriculums in the State are well below capacity.

b. Twice as many students as now enrolled could be handled in the graduate program at Drexel Institute.

c. There would be no need for another university program in the State

if the University of Pittsburgh should assume the program being relinquished by Carnegie Tech.

d. Six Pennsylvania State Colleges now offer programs for preparation of school librarians, primarily in undergraduate curriculums, as do six other colleges. All have fewer students than they are capable of accommodating.

e. If the University were to enter the library education field, it would not be wise to do so with an undergraduate curriculum.

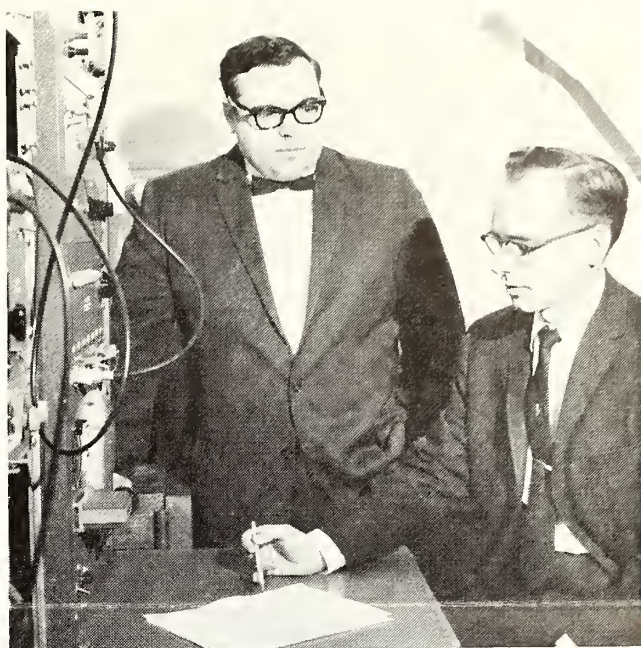
2. The Committee recommends that if the University should feel compelled to enter the library education field, it should do so at the graduate level and plan a program of the highest order to be worthy of accreditation by the American Library Association.

3. The maximum contribution to be made by the University, if it were to engage in library education, would be in the preparation of scientific and technological information.

4. The Committee estimates that a budget of \$100,000 would be required to initiate a program in library education and an annual operating budget of \$80,000.

Fallout Falling

Dr. Edward C. Keller, Jr., left, research assistant in genetics, and Dr. Edward S. Kenney, acting director of the Nuclear Reactor, report a dropoff in radioactivity in the past four years at University Park.



A consistent reduction in radioactive fallout at University Park during the last four years has been reported by Edward C. Keller, Jr., and Edward S. Kenney.

Keller is research assistant in genetics and Kenney is acting director of the Nuclear Reactor facility. The two have made a study of the fallout on campus since May, 1957.

The report and the data will be published in the Proceedings of the Pennsylvania Academy of Science.

An association between the amount of radioactive fallout and the Nevada nuclear test series was discovered when cloud paths were reported over this area.

"For example," says Kenney, "we noted a marked increase in fallout in the summer of 1957 after several nuclear weapons tests at the Nevada test site. Fallout peaks occurred during June, July, and September following nuclear explosions."

Fallout peaks generally were noted from 3.5 to 10 days after nuclear tests were made, the mean being 6.3 days.

The most notable feature of the survey is the reduction in 1959 and 1960 of the general level of fallout as the apparent result of the stopping of nuclear weapons testing.

"In the winter-spring of 1959," explains Keller, "there was another pattern of fallout which is probably the same

as that of 1958 with the exception of the long-lived isotopes from the residues of the early H-bomb tests of 1958 which were accentuated by the rather heavy precipitation during this period.

"The general stabilization of the level of the counts after May, 1959, is probably indicative of a general lowering of non-natural radioactive debris in the atmosphere."

The data in the survey were obtained by using a stainless steel sample tray, lightly oiled and exposed on the roof of the University Health Center. Collections were made daily except over the weekends.

Collected material was removed from the tray by carbon tetrachloride and evaporated to a standard small volume and ashed in a muffle furnace. The resulting sample was weighed and placed in a counter to obtain the Beta and Gamma counts.

Fallout in 1960 followed a similar pattern as that observed in the latter half of 1959, Kenney reports, when a very significant decrease in the amount of fallout was recorded. A peak was reported on Feb. 26, 1960, just 12 days after the explosion of the French nuclear device in the Sahara desert.

Appropriation —

(Continued from page one)

led the Committee to recommend that Penn State receive the State support needed to implement its long-range plan.

PART 2

1. The President appeared formally before the House and Senate Appropriations Committee to present and justify the budget and the appropriation request, supplemented by a special booklet on "Penn State and the Future of Pennsylvania" which was mailed to the legislature and to about 5,000 other Pennsylvania people.

2. One dinner meeting and one breakfast meeting were held with alumni members and other key personnel in the Legislature to discuss ways and means of proceeding.

3. The President and several members of the Board of Trustees have formally and informally discussed the appropriation with Governor Lawrence on numerous occasions.

4. A letter was addressed to the parents of all Penn State's students pointing out the

relationship between the appropriation and student fees, and suggesting that parents aid the cause by personal contacts with their Senators and Representatives.

5. Information about the appropriation was sent to all 60,000 alumni and to the University faculty and staff in a special issue of THE PENN STATER, to 1,700 members of the county Agricultural and Home Economics Extension Executive Committees, to the 300 members of the Commonwealth Campus Advisory Boards. Subsequent mailings and personal contacts were made with each of these groups.

6. At least one, usually two, members of the staff were in Harrisburg each week the Legislature was in session, talking personally with members of the House, Senate, and the Governor's Office.

7. A special report of Penn State's public service by counties was mailed to all members of the Legislature, the Penn State Advocates, newspaper editors, and others.

8. When the report of the Governor's Committee on Education recommended that Penn State receive a State appropriation adequate to keep pace with its long-range plan, the attention of the Governor and of House

and Senate leaders was called to this fact through a series of letters and personal visits.

9. When the Administration introduced a bill appropriating to Penn State less than the total amount requested, a bill for the full amount was introduced in the Senate by the Chairman of the Education Committee, and an identical bill was introduced in the House by its Education Committee Chairman and our local Representative. Both bills were prepared by the University, and were introduced at its request. Amendments raising the administration bill to the full amount are prepared and WILL be introduced in the House and Senate if that bill comes on the floor in its original form.

10. Numerous conferences were held with newspaper editors throughout the State, and special reports about the appropriation were prepared for their use — and were used. Similar support was provided by radio and television media.

11. During the past week the President made a personal appeal to the Governor and to key members of the Legislature in a letter seeking leadership for amendment of the administration's bill when it comes out of the committee for floor action.

News —

(Continued from page one)

► **AWARD:** Dr. Robert G. Bernreuter, dean of admissions and registrar, has been awarded the first Harold M. Phillips Award for "outstanding achievement in the advancement of college chess," by the Intercollegiate Chess League of America. The award notes the progress Penn State has made in raising "chess to a level as yet unequalled at any other college."

Dr. Bernreuter has had an interest in the progress of chess and of the Penn State Chess Club for a number of years.

► **VETERANS:** Dr. Robert G. Bernreuter, dean of admissions and special assistant to the President in charge of student affairs, appeared last week on a television program which is videotaped in Washington, D.C., and is the bi-weekly report by U. S. Senator Harrison A. Williams, Jr., to his constituents in New Jersey.

The program was devoted to a discussion of the GI Bill assistance for "cold war" veterans.

Dr. Bernreuter was asked to comment on the need of veterans for assistance to attend college, the value of college to them and the country's need to provide them with training, and on the quality of work done by veterans in college.

"We're finding that the very best scholarship is represented by the veteran students," he said. "They're better disciplined on our campus, they earn scholastic honors . . . and I must say that professors are very sorry that we're getting so few veterans nowadays."

Senator Ralph Yarborough, chairman of the Senate Veterans' Affairs Subcommittee, also appeared on the program. Dr. Bernreuter has appear-

ed before the subcommittee several times on the GI Bill.

► **MINORS:** Departments hiring "minors" for summer employment, or for permanent employment, are advised to be certain they are complying with Commonwealth of Pennsylvania regulations which require that anyone under 18 must have a "Certificate of Employment," popularly called "working papers."

The regulation applies whether the employee is on wage or salary payroll, works for only a few hours or for any period of time, and is male or female.

The University's minimum age for employment is 16.

Further information concerning regulations applying to working minors may be obtained from James M. Elliott, supervisor of the employment division, 304 Old Main, UN 5-7641.

► **SENATE:** The next meeting of the University Senate will be Thursday, June 1, at 4:15 p.m., in Room 121 Sparks.

Exams

Graduate students at the University who are planning to take the written foreign language reading examination at the next scheduled time, July 3, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows:

By making an appointment at Room 227, Sparks Building, for the German oral tests, which are to be given on June 13 and 14, and at Room 300, Sparks Building, for the French and Spanish oral tests, also to be given on June 13 and 14.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on July 3 no later than June 15 in Room 227, Sparks Building, for German; Room 247 Sparks Building, for English; and Room 300 Sparks Building, for French and Spanish.

CALENDAR

Saturday, May 27

Classes end, 12:05 p.m.
Pennsylvania Interscholastic Athletic Association championships in track, golf, and tennis.

Sunday, May 28

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Blue Band concert, 3 p.m., The Mall, (Schwab Auditorium in case of rain).

Tuesday, May 30

Memorial Day. Offices closed, with exception of those required for maintenance of academic program.

Thursday, June 1

Senate meeting, 4:15 p.m., Room 121 Sparks.

Tuesday, June 6

Final examinations conclude at 9:50 p.m.

Saturday, June 10

Commencement Exercises, 10:30 a.m., Beaver Stadium. In case of rain, ceremonies in Recreation Building at 10:30 a.m., 1:30 p.m., and 3:30 p.m.

College of Home Economics coffee hour for graduating seniors and parents, 8:30 a.m., Living Center, Home Economics.

GRADES

Grades for all students, including graduate students, who are to receive degrees at the commencement exercises in June must be reported to the Registrar's Office, Room 4, Willard Building, not later than 9 a.m., Wednesday, June 7.

Grades for all other students must be reported to the Registrar within 48 hours after the final examination or, in case of research grades, not later than 9:50 p.m., Thursday, June 8.

faculty BULLETIN

Vol. 48, No. 42

May 26, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

NEWS IN BRIEF

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Outstanding

LAST fall the Division of Counseling indicated that 312 entering freshmen were of "outstanding potential" and so advised the several Colleges.

"It was our desire," says Dr. Donald H. Ford, head of the division, "to call attention to these students who, in our opinion, were worth special consideration. From the records and from our discussions with them, they seemed to have the capability of becoming outstanding students if they found the right kind of stimulation at Penn State. Some had not earned outstanding grades in the past, but other evidence revealed they had learned more than they had let their teachers know about."

"We were not attempting to predict that they *would* become superior students — only that they seemed to have the potential."

What has happened to these students?

In the short space of a semester (for which academic records are available), the students have, by and large, done well. Only three have withdrawn from the university, and all three were for personal reasons.

Of the 309 remaining, 67 made the dean's list in the first semester, two with perfect 4.00 averages, and 148 had averages of 3.00 or above. The mean average was 2.86, compared to the mean of all freshmen of 2.20 and of the entire university of 2.40.

On the other side of a ledger, a total of 27 had averages below 2.00; 19 were automatically placed on probation with averages below 1.70. Seven

(Continued on page three)

► **SCHOLARSHIPS:** Alumni Memorial Scholarships, funds for which are provided by gifts specifically designated by alumni, have been offered to 15 high school seniors, 12 from Pennsylvania.

Each scholarship covers incidental fees, amounting to \$480 per year for Pennsylvanians. Nearly 350 applications were submitted by alumni clubs, which made the recommendations and also screened applicants.

► **HONORS:** Of the 2,800 degree candidates at the June 10 commencement exercises, more than 150 will be graduated with honors, including 118 bachelor's degree and 38 associate degree candidates.

Of those obtaining baccalaureate degrees, 17 will be graduated with highest distinction, 36 with high distinction, and 65 with distinction.

► **GIFT:** The Piper Aircraft Corp. of Lock Haven has given the department of aeronautical engineering an Apache airplane, valued at \$4,000. The plane will be used for instructional purposes in the department's structures laboratory.

► **CORRESPONDENCE:** Inmates at the California Medical Facility operated by the California State Department of Corrections will have the privilege of taking correspondence courses in agriculture through Penn State's College of Agriculture. The California Department has given the University \$200 to furnish correspondence instruction in agricultural economics, rural sociology, agronomy, animal husbandry, dairy science, entomology, and horticulture.

► **DRAMATICS:** Registration of children who will take part in creative dramatics classes this summer at the University is now going on, by mail, through the department of theatre arts. Registration will continue until June 15.

The classes are held in conjunction with adult classes, in which the student learns the art of guiding children in creative dramatic activity, based on stories, pantomime, and experience.

Children who have finished the second and third grades will attend classes from June 26 through July 21; those who have completed fourth and fifth grades will attend July 22 through August 18. Classes will be held for one hour Monday, Wednesday, and Friday.

There is no fee for children, but those who will miss any part of the class sessions should not be registered.

► **COMMENCEMENT:** Faculty members who plan to participate in the academic procession at Commencement exercises Saturday, June 10, should plan to assemble at the dressing rooms under the West Stands at Beaver Stadium at 10 a.m. The program begins at 10:30 a.m.

For those who will be in the procession, the parking area just west of the stadium has been reserved. Stickers similar to those used at football games last fall will be available so that faculty members may gain entrance to the parking area without delay. They are obtainable from the office of Reed Ferguson, 201 Old Main, UN 5-2522, either by calling by phone or in person at the office. The parking area, Ferguson advises, should be approached from Park Ave. and the cinder road north of the Stadium.

In case of rain, the exercises will be held in Recreation Building. Faculty members planning to join the procession should meet under the south balcony, as in past years, one-half hour before the scheduled time for the exercises of their respective colleges.

At 10:30 a.m., graduates of the Colleges of Engineering and Architecture and of Mineral Industries as well as those of associate degree programs will receive degrees. At 1:30 p.m., degrees will be granted to those in Agriculture, Education, Home Economics, and Physical Education. At 3:30 p.m., students in Business Administration, Chemistry and Physics, and the Liberal Arts will receive diplomas.

Faculty members are reminded that in the case of indoor ceremonies, their wives may accompany them and be seated in the chairs on the main floor of Recreation Building.

At Beaver Field, graduates in baccalaureate and associate degree programs will sit in the north stands, in the horseshoe, while guests will be seated on either side. Diplomas will be given by the respective deans in the walks in front of the stands.

There will be no speaker but President Eric A. Walker will deliver the charge to the graduates. Music for the occasion will be furnished by University organist George Ceiga and by a 15-instrument brass ensemble.

In all, some 2,800 will receive degrees, including about 1940 baccalaureate candidates and 420 advanced degree candidates. Commissions in the Armed Forces will be granted to 145 students at special ceremonies at 9 a.m., June 10, in Schwab Auditorium.

Retirements announced

RETIREMENTS of five members of the faculty, whose service to the University totals 131 years, were announced last week, along with several appointments to the faculty, leaves of absence, and resignations.

RETIREMENTS

Frank J. Bamer, professor of agronomy extension, will retire June 30 with emeritus rank after 25 years at the University, for the past 12 of which he was in charge of the extension agronomy program. He is a 1920 Penn State graduate in agronomy.

Harry H. Kauffman, professor of poultry husbandry extension, will retire after 35 years on the faculty. He taught at his alma mater, Purdue, for several years before coming here in 1936. He was granted an award by the Poultry Science Association of the U.S. and Canada as outstanding poultry extension teacher in 1957 and in the same year was named "Poultryman of the Year" by the Pennsylvania Poultry Federation.

Margaret A. Neuber, professor of education, will retire with emerita rank. She has been in charge of the special education program of the College of Education since 1945, and has made many major contributions to gifted-child work. She taught previously in the Philadelphia public schools, Ypsilanti, Mich., schools and East Stroudsburg State College. She was also principal and later director of teacher education of an academy in Thailand, from 1926-30.

Edwin Scott Roscoe, professor of industrial engineering, will retire with emeritus rank after teaching for 14 years. He is the author of two textbooks on the subject of management. Prior to coming to Penn State he served as vice-president and chief engineer of the C. B. Lawrence Co., Cleveland, and previously was research and chief engineer at Yawman and Erbe Mfg. Co.

Alfred F. Woelfel, assistant professor of electrical engineering, will retire June 30 after 41 years on the faculty. He received both bachelor's and master's degrees in electrical engineering from Penn State.

APPOINTMENTS

Dr. Friedrich B. F. Kasch, professor of mathematics at the University of Heidelberg, Germany, will join the faculty in September as distinguished visiting professor of mathematics for the next academic year. His research, which has received world-wide ac-

claim, is centered around abstract algebra and number theory.

Clifford A. Nelson, associate professor of accounting, has been named assistant coordinator of religious affairs, effective July 1. He will continue on a part-time basis in his present position. He has been associated with the religious affairs program at Penn State for some years and has served as chairman of the Committee on Interreligious Affairs.

RESIGNATIONS

Dr. Eugene Ackerman, professor of biophysics, who has been on leave for a year doing research at Mayo Clinic, has resigned to accept a position in the Biophysics Section of the Clinic.

Dr. Robert L. Alexander will resign, effective June 30, to accept a two-year appointment as visiting professor of art at the State University of Iowa. He has been a member of the faculty for the past three years.

Dr. Oswald Bowlin, assistant professor of finance, has resigned, effective June 30, to accept a position as associate professor of finance at Kansas State.

Richard O. Byers, associate professor of advertising, a member of the faculty for 11 years, has resigned to become registered representative and investment counselor for Green, Ellis, and Anderson, investment brokers.

Peter Dress, instructor in forestry, has resigned to accept a position as instructor in forestry and conservation at Purdue University, effective June 30.

Dr. Lawrence E. Fouraker, professor of economics, has resigned, effective Aug. 21, to accept a position as lecturer in the Graduate School of Business Administration at Harvard University.

Dr. Daniel F. Hobbs, Jr., assistant professor of family relationships, has accepted a position as associate professor of child development and family life at the University of Kansas, effective Sept. 1.

Harrison Kane, assistant professor of civil engineering, has resigned, effective June 30, to accept an appointment as associate professor of civil engineering at the University of Illinois.

Dr. Jessie R. Bernard, professor of sociology, plans to continue her research on "The Academic Woman," a study of women in university careers, while on leave for the next academic year. She will gather material for a book she plans to write in collaboration with Dr. Margaret B. Matson, associate professor of sociology.

N. Richard Diller, associate professor of psychology in Continuing Education, has been granted a six-month leave, beginning Feb. 1, 1962, to complete work for his doctorate in psychology at Temple University.

Marguerite L. Duvall, associate professor of child development and family life extension, plans to visit other universities and do research at Penn State to develop programs to be used in extension work, particularly in the area of communication.

Roger L. Fritz, instructor in electrical engineering, will be on leave for the next academic year to work for his doctor of philosophy degree in electrical engineering, at Penn State.

Dr. Lionel Goodman, associate professor of chemistry, has been awarded a National Science Foundation Senior Post-Doctoral Fellowship and will be on leave from Sept. 1 to June 9, 1962, to study at the Sorbonne and at the University of Uppsala, in Sweden, in the field of chemical binding in elementary molecules.

Dr. Frank N. Hewetson, professor of pomology at the research station at Arendtsville, will be on leave for the next academic year to do post-doctoral work at Cornell University, specializing in various aspects of plant physiology.

Martin Levine, assistant professor of engineering at the McKeesport Campus, plans to enter the Horace H. Rackham School of Graduate Studies at the University of Michigan while on leave from July 1 to June 30, 1962.

Fred H. Lewis, professor of plant pathology at Arendtsville, will start a six-month leave on Sept. 1 to do research at the citrus experiment station at Lake Alfred, Fla., studying diseases of citrus and other sub-tropical fruits.

Richard C. Maloney, associate dean of the College of the Liberal Arts, plans to do research in U. S. naval history and participate in the Frank C. Munson Memorial Institute of American Maritime History at the University of Connecticut while on leave from Mar. 19 to Sept. 3, 1962.

Dr. Robert D. Pashek, associate professor of transportation, will be on leave from Sept. 20 to Jan. 3, 1962, to do research in various areas of trans-

portation. He will do most of the research while on campus.

Duane R. Prosser, assistant professor of engineering at the McKeesport Campus, will do graduate work in mechanical engineering at Carnegie Tech from July 1 to June 30, 1962 while on leave.

Dr. H. David Rix, associate professor of physics, will do research at the United Aircraft Corporation, East Hartford, Conn., while on leave from July 1 to June 30, 1962.

Drs. Sidney and Alberta E. Siegel will be on leave for the next academic year at the Center for Advanced Study in the Behavioral Sciences at Palo Alto, Calif. Mr. Siegel, research professor of psychology, will prepare for publication reports on research he and co-workers have done for the past three years under NSF and Ford Foundation grants. Mrs. Siegel, associate professor of child development,

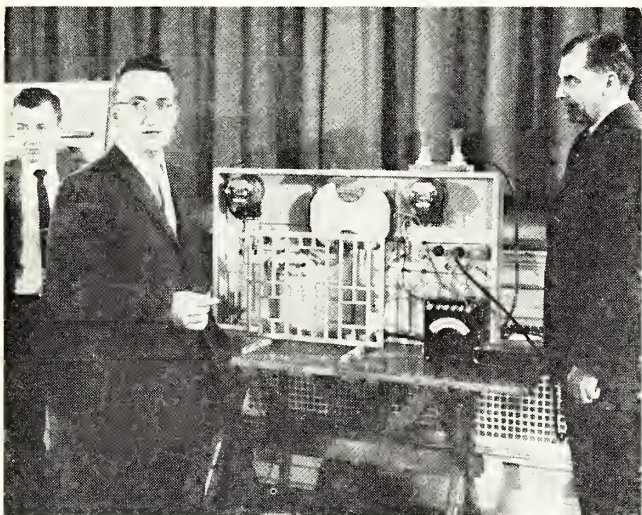
will do research and writing on methods for the study of personality and social behavior in young children.

Dr. Rolf G. Winter, associate professor of physics, plans to do research in nuclear physics at Clarendon Laboratory, Oxford University, and work with the electron synchrotron, while on leave from Sept. to Feb. 28, 1962.

Dr. Carl Faith, associate professor of mathematics, who has been on leave as a National Science Foundation Post-Doctoral Fellow at the Institute for Advanced Study at Princeton University, has had his leave extended from July 1 to March 28, 1962. He is doing research in the area of abstract algebra.

CHANGES OF TITLES

Samuel S. Hetrick and **William H. Walsh** from research assistants in petroleum chemistry to research assistants in chemical engineering.



Penn State is one of the universities to be featured in a film produced by the U. S. Information Agency for use abroad. Three staff members in the film are **Stephen B. Spencer**, **Jack Jantzer**, and **Dr. Herbert Albrecht**, left to right, in a scene showing an extension specialist at work.

University in film

PENN STATE is one of the universities which will be featured in a film produced for the United States Information Agency for distribution throughout the world.

Titled "Harvest of Learning," the film is concerned with the Land-Grant movement and is being produced for showing during the centennial celebration of the Morrill Act which was signed by President Lincoln July 2, 1862.

Many scenes shot at University Park and nearby emphasized extension and continuing education work. Specific areas pictured included the Armory, Old Main exterior and the mural, Pond Lab, a chemistry laboratory in Whitmore Lab, Electrical Engineer-

ing, Conference Center, and Boucke Building.

One of the key figures in the scenes taken here is **John A. Jantzer**, conference coordinator, who portrayed **Bill Brand**, an extension specialist.

Other staff members featured prominently include **Dr. Carl Volz**, professor of electrical engineering; **George S. Zoretich**, professor of art; **Dr. Herbert R. Albrecht**, director of Agricultural and Home Economics Extension; **Stephen B. Spencer**, dairy specialist.

The scenes here were made by **Calvin Productions, Inc.**, Kansas City, Mo.

It is hoped that the film will be ready for showing at the Centennial Convocation of the American Association of Land-Grant Colleges and State Universities, Nov. 12-16.

Outstanding —

(Continued from page one)

have averages below 1.40 and would be subject to drop action at the end of the second semester if they did not improve.

"There is no certain formula to indicate the actual performance of students beforehand," Dr. Ford says. "therefore it is unwise to judge predictions of 'outstanding potential' by ultimate performance, and especially so after only one semester's work.

"Some of these students will not realize their full potential. Some may, for any one of a number of reasons, fall below the average of the University.

"We believe, however, that those we have indicated as having outstanding potential are worthy of special attention by advisors in an effort to develop more fully their unusual talents.

"Telling these students they have outstanding potential has little utility. They have been told this many times before and, in fact, some resent being told again. They are more likely to respond with outstanding accomplishment if some faculty member admires them enough to share his enthusiasms and interests with the student in a personal and infectious way.

Patience needed

"In addition, patience is required because it may take several semesters for the effects of such efforts to begin to show in outstanding accomplishment by the student."

By colleges, the numbers of "outstanding potential" students are as follows (with the mean first-semester average indicated in parentheses): Agriculture 17 (2.88); Business Administration 14 (2.88); Chemistry and Physics 54 (2.99); Education 40 (3.09); Engineering and Architecture 50 (2.61); Home Economics 10 (2.81); the Liberal Arts 92 (2.85); Mineral Industries 16 (2.87); Physical Education 4 (3.19); and Division of Counseling 12 (2.52).

The judgment by the Division of Counseling as to the student's qualification was based on a number of factors, including aptitude and achievement test scores, high school records, activities, evidence of unusual accomplishments, special projects undertaken in high school, personal characteristics applicable to the chosen career, etc.

In all, some 340 reports were made, but 28 students chose not to enter Penn State. After registering, 42 enrolled in a college other than the one to which they were first admitted.

Items of interest

KERNER, DAVID, Ogontz, reprint of passages of an article, "A Note on The Beast in the Jungle" (originally in the 1950 University of Kansas Review) for "Henry James: Seven Stories and Studies" book edited by Edward Stone.

KOCHANOWSKY, B. J., mining, an article titled "Theory and Practice of Inclined Drilling for Surface Mining," in the April issue of "Pit and Quarry."

LECZNAR, F. J., mineral preparation, an article, "Application of the Law of Mass Action to Ore Flotation" in the November issue of the Journal of Scientific and Industrial Research.

LUMLEY, J. L., Ordnance Lab, a paper on "An Approach to Turbulent Dispersion" at Massachusetts Institute of Technology.

MACDONALD, E. T., Speech Clinic, a paper on "Problems of Counseling Parents of Children with Cleft Palates," at the annual meeting of the American Association for Cleft Palate Rehabilitation.

MARBUT, F. B., journalism, an article, "Congress and the Standing Committee of Correspondents," in the Winter issue of the Journalism Quarterly.

MATHER, W. G., sociology and anthropology, a paper on "Some Experiments with Television Teaching: the Introductory Course," at the Eastern Sociological Society's 31st annual meeting.

MCGEARY, M. N., political science, a paper at the annual meeting of the Mississippi Valley Historical Association on "Gifford Pinchot: Forester-Politician."

MURRAY, R. K., history, an article on "The Effect of a University's Graduate Program on its Undergraduate Education" in the May issue of the Journal of Higher Education.

PRYBYLA, J. S., economics, an article, "The Reasons for the Jobless in Affluent America," in The New Zealand Herald, April 24 issue.

— an article in The Irish Times, Dublin, on "Problems of Growth: The U. S. Economy."

NAGEL, S. S., political science, an article, "Using Simple Calculations to Predict Judicial Decisions" in the March issue of "The Practical Lawyer."

PANOFSKY, H. A., meteorology, a paper on "Scale Analysis of Meteorological Motions at Two Meters" before the national meet-

ing of the American Meteorological Society April 21.

PENDERED, N. C., industrial arts education, a paper on "Should Industrial Arts Objectives Change?" at the 23rd annual convention of the American Industrial Arts Association.

RAPHAEL, D. L., industrial engineering, a paper on "Developing Standard Times for Use in the Job Shop Foundry," read at the 65th American Foundrymen's Society Castings Conference.

RITTER, C. M., and HEWETSON, F. N., a paper on "Apple Rootstock Research at The Pennsylvania State University," in the March issue of "The Pennsylvania Fruit Notes."

ROY, RUSTUM, geochemistry, a paper summarizing the studies of the physical chemistry of synthetic clay minerals at an international colloquium of the Centre Nationale de Recherche Scientifique French Government this summer.

— a paper on his research on the varieties of the compound, silica oxide, at the Basic Science Division meeting of the Joint British and Dutch Ceramic Societies at Oxford, Eng., in June.

SIEGEL, SIDNEY, psychology, a paper at a joint colloquium of the departments of psychology and economics at Yale on "Decision Making and Conflict Theory: Approach Avoidance Gradients."

SIGNELL, PETER, physics, a paper titled "Invalidity of the Rafael Analysis for Moderate Energy NN Scattering," with graduate student Richard Yoder, at the American Physical Society meeting in Washington.

STAFFORD, R. E., student affairs research, a paper on "Evidence for the Sex-Linked Inheritance of Spatial Visualization" at the meeting of the Eastern Psychological Association in Philadelphia.

WALKER, E. A., president, an article, "Engineers and/or Scientists," in the February issue of the Journal of Engineering Education.

WEISMAN, WINSTON, history of art and architecture, an article, "Philadelphia Functionalism and Sullivan" in the March issue of the Journal of the Society of Architectural Historians.

WILLOWER, D. J., educational services, a paper at the Conference on Educational Research sponsored by the University Council for Educational Administration at the University of N. Carolina.

CALENDAR

Friday, June 2

Fluid Mechanics Seminar, 4 p.m., Room 105 Mechanical Engineering. Dr. Arnold M. Kuethe, Felix Pawlowski professor of mathematics, University of Michigan, on "Turbulence Field near the Stagnation Point on Blunt Bodies of Revolution."

Sunday, June 4

Chapel Services, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, assistant University chaplain, on "Crazy, Mixed-up Kids."

Tuesday, June 6

Final exams conclude, 9:50 p.m.

Saturday, June 10

Commencement Exercises, 10:30 a.m., Beaver Stadium. In case of rain, ceremonies in Recreation Building at 10:30 a.m., 1:30 p.m., and 3:30 p.m.

College of Home Economics coffee hour for graduating seniors and parents, 8:30 a.m., Living Center, Home Economics.

Tuesday, June 13

Summer Term registration begins, continues Wednesday.

Thursday, June 15

Summer term classes begin, 8 a.m.

Wednesday, June 21

Artists Series program by pianist Claude Frank, 8:30 p.m., Schwab Auditorium. Tickets at HUB desk for students beginning June 18, for others June 19.

PURCHASES

The Department of Purchases asks that effective July 1, 1961, all "standing" purchase orders be written for periods of three months — July through September, October through December, January through March, and April through June.

A standing order will be closed when the money encumbered has been spent, whether or not the period of time has elapsed.

faculty BULLETIN

Vol. 48, No. 43

June 2, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

4 Weekly Publication
The Pennsylvania
State University

Mateer playhouse

A completely new cast directed by a figure familiar to local theatre goers will be featured this summer at Mateer Playhouse in the program of the theatre arts department.

Seven plays, first of which is Ray Lawler's "Summer of the 17th Doll" opening June 19, will be performed at the Playhouse.

Max Fischer will again direct, as he has done since the Playhouse came under the wing of the theatre arts department in 1958. Previously, he had also directed when it was under private management as the Standing Stone Playhouse.

The cast will be headed by Will Gregory and Diana Frothingham, both very experienced actors, and will include also Patricia Maguire, Constance Dix, Mark Rhudy, Gerald Richards, and Edward Anderson, a graduate student in theatre arts. Delmar Hendricks will be stage manager.

Mateer Playhouse serves a manifold purpose, by blending professional talents with the educational environment, says Dr. Walter N. Walters, head of the theatre arts department.

"In addition to those students who take theatre arts production courses during the summer, those in some other theatre courses not directly connected with the Playhouse get the benefit of the contact with the professional actors who come here. Students in Theatre Arts 62, 442, and 443, for example, are privileged to sit in at rehearsals, although this is an appreciation course and has no laboratory period.

"To the fullest extent possible, the
(Continued on page four)

NEWS IN BRIEF

► **REGISTRATION:** Faculty and staff members wishing to take course work during the summer term will register at Recreation Building Tuesday and Wednesday, June 13 and 14, according to the printed alphabet schedule for all students. They may also register at Room 4 Willard on Thursday, June 15 from 8 a.m. to 12 noon.

Before registering, the employee must obtain registration forms at the office of the dean or at Room 4, Willard, and also obtain the signature of his immediate supervisor and employing dean or administrative officer. If a graduate student, he must also obtain the signature of his adviser and dean of the Graduate School (at Recreation Building).

Fees must be paid before reporting to Recreation Building, admission to which will be made upon presentation of a stamped receipt from the Bursar.

► **ALUMNI:** Activities of the 1961 Penn State Alumni Institute and Class Reunion Program will get underway Thursday, June 15 with registration for all classes at the Hetzel Union Building in the afternoon and a program of color slides and an informal reception in the evening.

Highlight of the Friday program is the Institute panel discussion at 10:30 a.m. and the lecture sessions at 2 p.m. and again at 3:30 p.m.

The panel discussion, on the topic "The Exploding World — 1961," will have Dr. C. F. Hager, director of the Center for Continuing Liberal Education as moderator and as participants Dr. Elton Atwater, head of the department of political science; Dr. Robert T. Oliver, head of the department of speech; Dr. Jan S. Prybyla, assistant professor of economics; and Dr. John S. Sauer, head of the department of physics.

The lecture sessions at 2 p.m. in Osmond Laboratory will be given by the following:

Dr. Dagobert de Levie, associate professor of German on "The Problem of Divided Germany."

David H. McKinley, associate dean of Business Administration, on "Business Forecasting."

Dr. William M. Smith, Jr., State 4-H Club leader, on "The Tyranny of Teen-agers."

Dr. Jerome K. Pasto, professor of farm management, on "The Far East."

G. Donald Kepler, instructor in physical education, on "Survival."

Dr. John C. Griffiths as leader of a discussion on "Sources of Power," with panel members N. J. Palladino, Dr. Sidney A. Bowhill, and Dr. Francis J. Vastola.

At 3:30 p.m. in Osmond Laboratory, the following lectures will be given:

Dr. Richard H. Jahns, chairman of the division of earth sciences, on "The Mohole Project."

Dr. George N. Raney, associate professor of mathematics, on "New Concepts in Math."

Dr. Leon Gorlow, associate professor of psychology, on "Jet-Age Pressures."

George S. Zoretich, professor of art and Stuart H. Frost, assistant professor of art, on "Art Demonstration."

Dr. Joseph H. Britton as leader of a panel discussion on "Plan Now to Enjoy Tomorrow," with Julia G. Brill, Dr. Roy D. Anthony, and Dr. Douglass S. Mead.

The evening program on Friday will be devoted to informal class parties.

Saturday, June 17, activities will begin with campus bus tours at 9 a.m. At 12:30 p.m. the All-Class Luncheon will be held in Rec Hall, with a special program of entertainment.

At 2 p.m. Saturday the annual Alumni Parade from Rec Hall to Schwab Auditorium will precede the presentation of 1961 Distinguished Alumni Awards, Woman of the Year Award, the 1961 Alumni Fund Gift, and President Walker's report to alumni on the state of the University.

The several classes holding reunions will have their banquets Saturday evening.

► **LIBRARY:** Hours of operation of Pattee Library for the summer months have been announced as follows:

June 12-14 — 9 a.m. to 5 p.m.

June 15-Aug. 24 — Monday through Friday, 7:50 a.m. to 10 p.m.; Saturday, 7:50 a.m. to 5 p.m.; Sunday, 2 p.m. to 10 p.m. (Note that July 4 the Library will be closed all day. Also, on Thursday, Aug. 24, the closing time will be 5 p.m.)

Aug. 25-Sept. 24—Monday through Friday, 9 a.m. to 5 p.m., except closed Sept. 4; Saturday, 9 a.m. to 12 noon; Sunday, closed.

Sept. 25 — begin schedule as follows: Monday through Friday, 7:50 a.m. to 10 p.m.; Saturday, 7:50 a.m. to 5 p.m.; Sunday, 2 p.m. to 10 p.m.

► **PIANIST:** Claude Frank, considered one of the finest musicians of his generation, will open the Artists Series program for the Summer Term Wednesday, June 21, at 8:30 p.m. in Schwab Auditorium.

Tickets for the performance will go on sale to students June 18 at 1:30 p.m. and to non-students June 19 at 9 a.m.

German-born, Frank was one of the
(Continued on page three)

Personnel Matters

Dr. Charles L. Hosler, professor of meteorology, has been named head of the department of meteorology for a four-year term effective July 1. He succeeds Dr. Hans Neuberger who will be on leave from Sept. 1 to Feb. 28 to serve as technical assistant to the government of Pakistan and who asked to be relieved of administrative duties as head of the department. Dr. Hosler joined the faculty in 1948 as instructor.

Dr. George F. Wislicenus, professor of aeronautical engineering and director of the Garfield Thomas Water Tunnel, has been named head of the department of aeronautical engineering, effective July 1, succeeding Dr. John A. Fox, who has been acting head for the past year. Dr. Wislicenus will continue as director of the Water Tunnel.

Paul S. Williams, professor of dairy production, will retire July 1 with emeritus rank after more than four decades of teaching and research. He joined the faculty in 1920 following his graduation. He was supervisor of official dairy testing for 36 years.

Dr. Harald Schraer, senior research associate in physics, will be on leave from Sept. 1 to Dec. 31 as visiting scientist at the National Institute of Dental Research of the National Institutes of Health. He will work with techniques for studying the microstructure of tissues by means of micro-radiography, electron microscopy, and other methods.

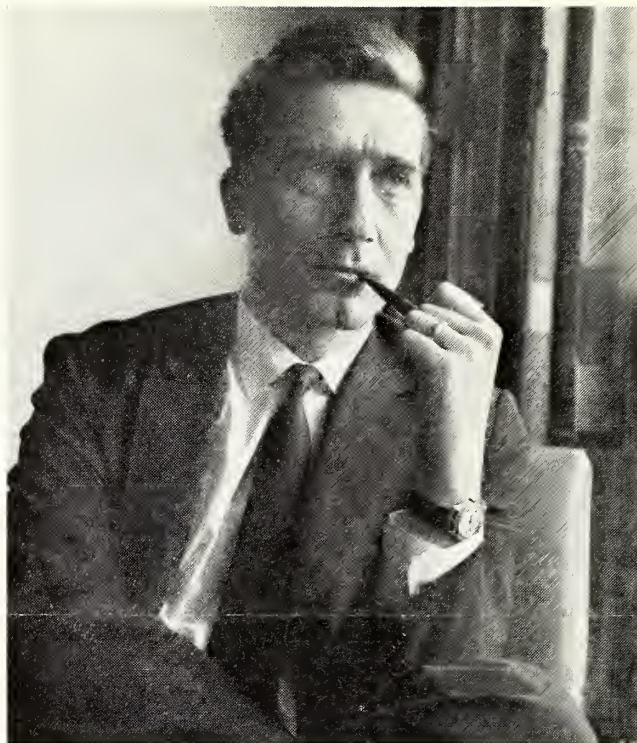
Robert A. Olsen, assistant professor of industrial engineering, will be in Monterrey, Mexico, as industrial engineering consultant to Mexican industries during the summer term.

Arthur D. Brickman, associate professor of mechanical engineering, has been awarded a Science Faculty Fellowship of the National Science Foundation for 1961-62. He will be on leave for graduate study and research at the University of Michigan.

Dr. James J. Fritz, associate professor of chemistry, will be on leave from Sept. 15 to June 15 to accept a Guggenheim Foundation fellowship. He will spend most of the year at Oxford University on low temperature research and studies in the theory of magnetism. He will also spend a month at the University of Leiden, Holland, and also visit laboratories on the continent.

SCHOLARSHIPS

A limited number of Faculty Aide Scholarships are still available. Ralph Kreeker, director of student aid, Willard Building, should be contacted.



Dr. Jan S. Prybyla, who has made a study of Soviet economy for two decades, points out the importance of private enterprise to the Russian welfare. Especially in agriculture has the initiative of the individual meant much.

Private enterprise in Russia

IN spite of its avowed objective to eliminate private enterprise in the rest of the world, Soviet Russia must admit that since the Revolution its own economy has relied in no small measure on the very element it seeks to end elsewhere.

Dr. Jan. S. Prybyla, assistant professor of economics, came to Penn State in 1958. He was born at Katowice, Poland, but left his homeland in 1939 for France and England. He was educated at University College, Cork, Ireland, received the master's degree in 1950, and three years later the doctorate at the National University of Ireland. He was in the import and statistical department of Eustace and Co., Ltd., Cork, Ireland, in 1950-51. In 1953 he was graduated from the Institute of Higher European Studies, University of Strasbourg, France.

From 1953 to 1958, Dr. Prybyla was assistant to the president of the Free Europe University in Exile (FEUE) at Strasbourg and Paris and taught economics.

In September, 1958, he was named to the Penn State faculty.

Much of the material Dr. Prybyla draws on in his study of Soviet Economy discussed in the accompanying article is taken from newspapers, periodicals, and other publications both inside and outside Russia, from correspondence, interviews, and his background of many years in Europe.

Surprisingly enough, the press in Russia is remarkably free in its discussions of private enterprise within its borders. There is one difference, however, Dr. Prybyla points out. In Russia, the aim of discussion is to discourage free enterprise. It is still considered a crime against the state.

Articles by Dr. Prybyla have appeared or will appear soon in The Quarterly Review (London), South African Journal, The Economist (London), The Builder, and the American-Slavic and East European Review on this subject.

"Eventually, Communist leaders hope that private enterprise will 'with-er away'," says Dr. Jan S. Prybyla, assistant professor of economics, who has studied Soviet economy for two decades.

"In the meantime, however, it is significant in smoothing the bumps in the performance of the socialized sector, and in times of crisis it helps to bale out the economy."

Private enterprise in the U. S. S. R. is legal in some areas, illegal in most. Within the latter area, there are activities which are considered highly reprehensible and others which, although ideologically wrong, are overlooked by law enforcement authorities.

In the summer of 1918, when distribution of food and other goods had broken down, private enterprise was quite willingly tolerated. "Bag men," as they were called, on their own initiative supplied starving towns with provisions. The end of "bagging" came only with gradual improvement in the state's distribution mechanism.

Today, illegal private enterprise appears to fall into the categories of retail trade in consumer goods, services, and artisan production. For example, the manufacture and distribution of church bells, wedding crowns, and candlesticks, was revealed in re-

cent court cases. So, too, was the manufacture and sale of jazz records (made from X-ray films).

"The circumstances of this trade," says Dr. Prybyla, "were quite interesting. The records were appropriately called 'rocks on the bones'. The distribution of the merchandise involved a credit purchase system and a sales quota arrangement for local distributors. Each record cost 15 rubles, comparing favorably with official Soviet price of 8 rubles for a 12-inch long-play record, especially considering the risk involved.

"The newspaper report lamented not only the fact that Soviet citizens were carrying on such nefarious trade but also that other good citizens were making the trade profitable."

Newspaper reports are one good source of information on private enterprise, Dr. Prybyla finds, especially in noting the legal actions against wrongdoers.

Moonshine

One of the more frequently reported crimes is, of all things, moonshining. The private distilling of vodka, chach, arrack, mulberry vodka, beer, and other beverages has bothered Soviet authorities not exclusively from a moral viewpoint but because of the concern for the amount of sugar used for the beverages. Heavy fines, jail sentences up to three years, and more recently the death penalty, are now being imposed for this and other related "economic crimes."

Particularly disturbing to higher authorities in the Party and the Government is the fact that much of this illegal private enterprise is, in effect, encouraged by local authorities, plant managers, and party officials. Meeting quotas and breaking production records is sometimes aided by private entrepreneurs.

"The case of the coal 'fixers' is illustrative," Dr. Prybyla says. "The program was carried on with the knowledge and consent of coal combines.

"The 'fixers' hired labor to salvage coal from waste heaps, then sold the coal to state farms. The coal was moved to the farms in freight cars provided by the railroad on orders from the coal combines.

"In the process, the coal combines were aided in boosting their plan-fulfillment figures and the farms were supplied with otherwise unavailable fuel. Everyone seemed to gain, nobody to lose — but it was illegal."

Many of the illegal private ventures exist because the distribution of goods by legal means is inadequate. The construction business is a good example.

"In the Krasnodar Territory alone," Dr. Prybyla learned, "in two years time, 200 collective farms bought 14 million rubles worth of building materials on the open market. Purchases of such items as roofing iron, paint, lumber, bricks, cement, fixtures, electric wires, stools, shelves, and tables, etc., are made in private channels.

"Private construction of residences is not illegal, so long as no labor is hired. The very real shortage of construction materials open up avenues which often lead directly to state stores and construction sites."

Legal private enterprise in agriculture is surprisingly big. In 1956, the individual plots of about one acre which are allotted to collective farm families and to laborers on state farms produced 67 per cent of the gross output of potatoes (about 64 million tons), 87 per cent of the egg output (nearly 17 billion 'units'), 57 per cent of the milk production (28 million tons), 55 per cent of the meat output, and about 42 per cent of vegetable production.

And these plots were allotted for the private use of the farmers!

"One reason for the productiveness of these plots," says Dr. Prybyla, "is the attention they get from the farmers. About 50 per cent of what the farmer produces goes to market. His prices are higher than those of the state and collective farms, but he is able to sell his products because of higher quality."

The government has learned its lesson about battling the farmers directly so that its current efforts at controlling this segment of private enterprise are by strong persuasion and, surprisingly, competition.

State farms

"In recent years, state farms near the large cities have been ordered to produce the same products the individual farmers have sold so successfully in the open market," Dr. Prybyla explains. "By reducing transportation problems, the government hopes to improve the quality of its goods in the markets."

There is illegal private enterprise in agriculture, also. Excessive ownership of livestock, leasing by individuals of collective farm lands, and use of hired labor for the production of commodities on individual allotments have been cited in complaints by high party officials.

"In the district of Alma-Ata, irrigated land on collective farms was leased for the raising of onions with the help of privately hired labor," Dr. Prybyla says. "In another district, the number of personally-owned cows had increased faster than those on collective and state farms in recent years."

In the satellite countries, the scene is much the same, although in Poland agricultural land is not nearly as collectivized as in Russia and private enterprise is more common.

"The western world can take no comfort from the existence of private enterprise in the Soviet sphere; it is due to no change in the Soviet philosophy," Dr. Prybyla says. "Most of the young people wouldn't have any conception of what private enterprise means in, let us say, the steel industry.

"The Soviet system generates private enterprise sub rosa, but probably there is no genuine desire to develop it further except where there are stresses and strains in the Soviet economy as it affects the man on the street.

"The February issue of 'Kommunist' contains an article in which it is admitted that the current laws and economic goals may be out of touch with reality, forcing managers to illegal practices and fostering private enterprise to meet goals.

"Even though the state is using strong pressure to eliminate private enterprise everywhere, and the share of the economy provided by private entrepreneurs is declining, the complete disappearance of this unusual phenomenon seems to await the 'higher stage' of communism.

"That is in the indeterminate future."

News —

(Continued from page one)

last pupils of Artur Schnabel. He came to the U. S. in 1941 and has had a close association with Rudolf Serkin's Marlboro Festival and School since 1953. His performances include orchestral appearances with orchestras directed by Leonard Bernstein, Steinberg, and Munch and has had a full schedule of recitals in Europe and the United States.

His program will consist of Schuman's Arabesque, Op. 18; Mozart's Sonata in F-Major, K332; Beethoven's Sonata in A-Major, Op. 101; selections from Debussy; Liszt's Sonetto 123; and the Hungarian Rhapsody, No. 11.

► **GRANT:** Dr. Charles L. Hosler, professor of meteorology, has been awarded a grant by the National Science Foundation to attend the International Cloud Physics Conference in Canberra and Sydney, Australia, from Sept. 11 to Sept. 20.

He has been invited to present a paper on the life cycle of convective showers over mountainous terrain. He will be a delegate to the conference, representing the United States and the American Meteorological Society.

Mateer —

(Continued from page one)

cast for plays at the Playhouse is drawn from students after the professionals are hired. The production staff is heavily student also. Fischer and many of the cast members will lecture to theatre arts classes during the summer."

Following the opening play, which will run for one week, will be the perennial favorite "Life With Father" (two weeks); "Epitaph for George Dillon"; "The Deadly Game" (two weeks); "The Tunnel of Love"; "A View from the Bridge" (two weeks); and "Fallen Angels," which concludes the season on Aug. 26.

Gregory has made many appearances on television and in off-Broadway shows. He has played on the Armstrong Circle Theatre and Dupont Show of the Month television shows and on the stage in "Summer and Smoke" and "Streetcar Named Desire" in lead roles.

Diana Frothingham also appears regularly on television. She has a continuing role as Rita Wilson in the daytime show, "The Guiding Light." Previously she had the role of Debbie Chalmers in the radio drama, "Right to Happiness." Her experience also includes stock in New England and at the Hedgerow Theatre.

Patricia Maguire has also had television roles and has done stock in Massachusetts. Constance Dix has ap-

peared in several off-Broadway shows and in such plays as "Death of a Salesman" and "Junior Miss" on the road.

Gerald Richards has done stock at Reading, Pa., and has appeared in productions of "Our Town," "Home of the Brave," and "Beautiful People" off-Broadway. Mark Rhudy has appeared on the Pacific Coast in "Inherit the Wind" and "Stalag 17."

The box office will open June 12. Reservations may be obtained by phoning the Theatre Arts Department, UN 5-7586 or one of the following outlets: Playhouse Box Office, Standing Stone, North 7-4211; State College Hotel, Adams 8-6733; The Book and Records Shop in Altoona, Windsor 3-4190 and 3-4193; Danks and Co., Lewistown 8-6794.

CALENDAR

Saturday, June 10

Commencement Exercises, 10:30 a.m., Beaver Stadium. In case of rain, ceremonies in Recreation Building at 10:30 a.m., 1:30 p.m., and 3:30 p.m.

College of Home Economics coffee hour for graduating seniors and parents, 8:30 a.m., Living Center, Home Economics.

Tuesday, June 13

Summer Term registration begins, continues Wednesday.

Thursday, June 15

Summer Term classes begin, 8 a.m. Alumni Reunion registration begins at 1:30 p.m. Color slide presentation, 8 p.m., HUB Assembly Hall, by Michael Lynch. Informal reception 9 p.m., terrace off HUB ballroom.

Friday, June 16

Alumni Institute program. At 10:30 a.m., panel on "The Exploding World — 1961," HUB Assembly Hall. At 2 p.m. and at 3:30 p.m., lectures by faculty members in Osmond Lab.

Saturday, June 17

Alumni Reunion All-Class luncheon 12:30 p.m., Recreation Building; parade to Schwab Auditorium 2 p.m.; presentation of awards and President's State of the University address, 2:30 p.m.

Air ROTC

From Colonel W. J. Cain, professor of air science, has come the following information regarding changes in the Air Force ROTC curriculum:

1. There will be no Air Force ROTC courses offered for the 1961 Summer Term.

2. Basic course changes will be effective in the Fall Term, 1961. For those beginning the Basic Course in the fall term the structure of the course is as follows:

Course	Class ROTC	Non-ROTC Course*	LLT Period	ROTC Credit Only
Air 1	0	1	1	0
Air 2	0	1	1	0
Air 3	1	—	1	1
Air 4	1	—	1	1
Air 5	1	—	1	1
Air 6	0	1	1	0

* The class periods scheduled in this column have heretofore been used to teach special ROTC courses by ROTC personnel. The substitution of certain approved regular University courses is now authorized during these periods. The courses that have been

approved for this purpose are so marked in the University Course Timetable.

NOTE: Air 1 and 4 will be given in Fall, 1961, term; Air 2 and 5 in the Winter, 1962, term; and Air 3 and 6 in the Spring, 1962, term.

3. For those beginning the Advanced Course in the fall term, 1961, the structure of the course will be:

Course	Class ROTC	Non-ROTC Course*	LLT Period	ROTC Credit Only
Air 7	1	—	1	2
Air 8	1	—	1	2
Air 9	1	—	1	2
Air 10	1	1	1	1
Air 11	1	1	1	1
Air 12	1	—	1	1

NOTE: Air 7 and 10 will be given in the Fall, 1961, term; Air 8 and 11 in the Winter, 1962, term; and Air 9 and 12 in the Spring, 1962, term.

4. Further guidance will be available prior to the counseling period for the fall term for those students transitioning from the old Basic Course structure to the new structure.

5. Students in the Advanced Course making the transition to new course structure should consult their Air Force counsellor for guidance.

faculty BULLETIN

Vol. 48, No. 44

June 9, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

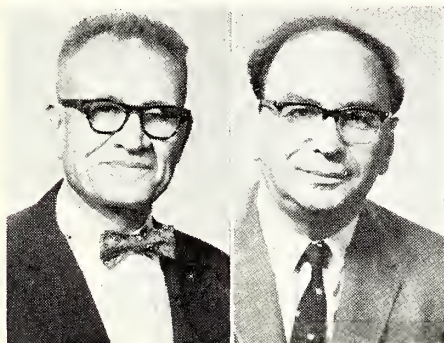
W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Outstanding



Tarpley

Finch

Dr. Henry A. Finch, professor of philosophy, and Harold I. Tarpley, professor of electrical engineering, were presented with engraved plaques and stipends of \$1,000 each by President Walker at Commencement Exercises last Saturday as winners of the 1961 Christian R. and Mary F. Lindback Foundation Award for Superior Teaching.

The award is made yearly to one or more members of the faculty "in recognition of outstanding service in stimulating and guiding the intellectual development of their students at the Pennsylvania State University."

Tarpley, who was recipient in 1959 of a citation for excellence in teaching as a representative of the College of Engineering and Architecture, has been a member of the faculty since 1923. He taught nearly every course in the department in his four decades on campus. He developed an early interest in servo-mechanisms and started work in computers in 1950, supervising the design and construction of

(Continued on page four)

NEWS IN BRIEF

► **TRUSTEES:** Four members of the Board of Trustees were re-elected last week by delegates of county agricultural and industrial societies. They are Albert E. Madigan, Towanda; Charles E. Oakes, of Allentown; Roger W. Rowland, of New Castle; and J. Lewis Williams, of Uniontown.

► **BUILDING:** Architects have been instructed to proceed with final plans for the Arts and Humanities Building, part of a \$3.75 million General State Authority project.

The project also includes alterations to Carnegie Building, conversion of the Stock Judging Pavilion to an arena-type theatre, and the enclosing of the Pavilion for year-round use for varied events.

The three buildings of Phase II of the project will be constructed in Hort Woods immediately north of the Helen Eakin Eisenhower Chapel. One unit will include a large general purpose classroom with a capacity of 600 and also offices, smaller classrooms, and practice rooms for use of the department of music. A second unit will be used primarily by the departments of art and theatre arts. The third unit, one story, will have four triangular shaped classrooms with sloping floors, each with a seating capacity of 400. A central preparation room in the center of the round-shaped building will facilitate the use of visual aids.

► **ENGLISH:** Dr. Wilfred T. Jewkes, Dr. Agnes R. McElwee, and Dr. John S. Bowman, all of the department of English, will be among 60 teachers who will meet at Ann Arbor, Mich., August 14 to Sept. 1, to carry out the first phase of an extensive program in language, literature, and composition sponsored by the Commission on English of the College Entrance Examination Board.

A two-year summer program has been developed by the Commission to improve the quality of college preparatory English. The three-week planning institute this summer will prepare faculty members for their

roles as leaders of the 1962 summer institutes scheduled on their home campuses.

► **TENNIS:** The Penn State Tennis Club has opened for the season at the Varsity Courts, on east campus. Faculty and staff members, as well as students and area residents are eligible to join the Club.

Membership dues for the club are listed as follows: single man or woman, \$25 for season, \$12.50 per month; husband and wife, \$35 for season, \$15 per month; family membership, \$45 for season, \$17.50 per month. Guest fee is 75 cents for a half day. Membership fees may be paid at the main ticket office, Recreation Building, or at the courts.

Students and sons or daughters of faculty members 16 years of age or over may apply for a season membership on a single-person basis.

For further information call John Egli, UN5-4102.

► **NAMES:** The Board of Trustees took action last week to name or rename a number of roads on the University Park campus.

1. **CURTIN** — to include the entire east-west road from Recreation Hall to the east of the Stadium.

2. **BIGLER** — the road formerly called Entrance Road, renamed for William Bigler, governor of the Commonwealth 1852-1855. He was from Clearfield County.

3. **UNIVERSITY ROAD** — formerly University Drive.

4. **PARK** — the east-west road beginning at Shortlidge and Park Ave., running east to rear of stadium.

5. **PORTER** — the farm road from Rt. 45 at Iron Furnace, north past the incinerator, Stadium and airport. Named for David Rittenhouse Porter, governor from 1839 to 1845.

6. **ALLEN** — the road through Parking Lot 70, east of the old stadium.

7. **MCKEAN** — the road north of South Resident Halls. Named for Thomas McKean, second governor of Pennsylvania under the 1790 constitution.

8. **HASTINGS** — the road which passes the Research Center. Daniel Hartman Hastings, of Centre County, was governor from 1895 to 1899.

9. **OAK** — the dead end road in Graduate Housing area.

10. **MIFFLIN** — the north-south road east of Simmons and McElwain Halls. Thomas Mifflin was the first governor under the 1790 Constitution.

► **MATEER:** The summer season opens at Mateer Playhouse Monday, June 19, at 8:40 p.m. with Ray Lawler's "Summer of the Seventeenth Doll" as the week-long attraction. Max Fischer directs.

The next play at the Playhouse will be the perennial favorite, "Life with Father," by Howard Lindsay and Russel Crouse, which will be given June 26 to July 8.

CORRECTION

It was stated in last week's Faculty Bulletin, incorrectly, that certain courses which may be substituted for Air 1, 2 and 6 credits are identified in the timetable. They are *not* so marked, but include any course in mathematics, physical, or natural sciences, foreign languages, social sciences or other humanities courses. Incoming freshmen have been advised of the changes.

Senate Minutes

Meeting of June 1, 1961

The University Senate met at 4:15 p.m. on Thursday, June 1, 1961, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the May 4, 1961 meeting were approved as printed in the Faculty Bulletin for May 12, 1961. One hundred forty-seven senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: B. G. Anderson (C. W. Rutschky), N. D. Blackburn (Thomas Smyth), D. H. Ford (J. D. Ashby), M. S. Gjesdahl (E. E. Ambrosius), M. W. Isenberg (W. H. Hill), W. A. Kearney (F. G. Show), B. B. Lethbridge (R. S. Stout), W. G. Mather (Margaret Matson), E. B. McCoy (E. A. Gross), D. H. McKinley (W. S. Decker), N. J. Palladino (A. H. Foderaro), and H. D. Wright (Christopher Crowe).

New Senator

A letter from Ben Euwema, Dean of the College of the Liberal Arts, was read as follows: Prof. G. N. Raney will be on leave during the academic year 1961-62. Prof. V. V. Aspaturian will serve as his alternate.

Reports of Standing Committees

J. R. Hayes, acting for A. D. Brickman, Chairman of the Senate Committee on Academic Standards, presented the report which had been distributed with the agenda as Appendix "A". In order to adapt the procedures for dropping and/or adding courses to the term calendar, Mr. Anderson moved adoption of the proposed changes as recommended by the Committee as follows:

J-1 With his adviser's approval a student may drop or add a course during the first ten calendar days of a term.

J-2 A student may not add a course to his schedule after the first ten calendar days of a term. A student may drop a course after the first ten calendar days of a term only upon the written approval of the student's dean. Such authorization shall be given only under extraordinary circumstances; unsatisfactory scholarship in itself will not be considered an extraordinary circumstance.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, presented the report which had been distributed with the agenda as Appendix "B." He stated that it had been called to the attention of the Committee that because of transportation and other factors at the Commonwealth Campuses it was not necessary to allow 20 minutes between class periods. He, therefore, asked that the following changes be made in the proposed basic calendar policy.

In Item G. Length of Class Periods. In the third line insert the words "on the University Park Campus" between the words "that" and "20 minutes."

In Item II. The Standard Academic Day. Change the first line to read: That on the University Park Campus the first class period . . .

In Item L. Emergency Variations. In the first line, insert the words "or the Director of a Commonwealth Campus" after the word "University."

Mr. Whisler then moved adoption of the recommendations as proposed by the Committee that:

A. The present Calendar Policy covering the semester system be rescinded.

B. The Basic Calendar Policy dated June 1, 1961 be adopted.

C. Where the presently adopted calendar for 1961-62 varies from the adopted policy, changes in the 1961-62 calendar need not be made, but that any changes which may be made in the 1961-62 calendar shall be in the direction of conformance with the adopted policy.

The motion was seconded and passed. The corrected proposal is as follows:

Basic Calendar Policy

June 1, 1961

It shall be the policy of The Pennsylvania State University:

A. Calendar System — That the University operate on a year-round calendar of four equal terms each year to be known as the Summer, Fall, Winter and Spring Terms.

B. Length of the Term — That each term shall consist of ten weeks of classes so arranged that all classes meeting at a specific time will meet ten times in each term.

C. Days Between Terms — That there shall be a minimum of eight calendar days between the close of any term and the first day of classes of the succeeding term.

D. Reference Dates for Beginning of Terms — That the pre-term activities for the Winter Term shall start on or after January 3 and that no term shall start on a Friday or Saturday.

E. Holidays — That classes shall not be held during the following holiday periods:

a. Christmas-New Years: A minimum period of 17 days;

b. Independence Day: July 4 only;

c. Thanksgiving: Thanksgiving Day only.

F. Orientation and Registration — That neither orientation nor registration periods shall be considered to be part of any regular term and that they shall be established by the University administration with such lengths and at such times as are necessary to accomplish their purposes.

G. Length of Class Periods — That the time devoted to single unit of class meetings shall be 75 minutes, that each unit shall be known as a "class period," that on the University Park Campus 20 minutes shall be provided between class periods, and that successive class periods including the intervening time between these periods which are used for a single class shall be known as a "laboratory session."

H. Commencements — That such commencement exercises as are scheduled be held as soon as feasible after the end of the term.

I. Class Schedules —

1. The Standard Academic Day.

That on the University Park Campus the first class period of the day shall start at 8:00 a.m. and that the last regular class period of the day shall end at 5:10 p.m. Monday through Friday and at 12:25 p.m. on Saturday.

2. Evening Classes.

That it shall be the general policy of the University to schedule all classes for regular full time students between 8:00 a.m. and 5:10 p.m. during the standard academic day, but that classes may be scheduled at other hours as an expedient to meet special situations.

3. Student's Schedules.

That no student shall be required to schedule, and no laboratory schedule shall include, all or part of both the third and fourth nor all or part of both the sixth and seventh periods of the day.

J. Examinations — That all formal ex-

aminations in any course shall be held during the regularly scheduled class periods or laboratory sessions of the course, except when the conditions detailed in Rule I-9 of the Senate Regulations for Undergraduate Students are satisfied.

K. Special Class Meetings — That where a course regularly requires a special class meeting (such as an inspection trip) which interferes with other scheduled classes, the special class meeting shall be announced at the beginning of the term and the exact date of any such special class meeting shall be announced not later than two weeks prior to the date of that meeting.

L. Emergency Variations — That only the President of the University, or the Director of a Commonwealth Campus, shall be empowered to make emergency variations in this policy for reasons of weather or for other cogent reasons and that class periods lost may or may not be made up as conditions warrant.

The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "C". He stated that the Department of Elementary Education had requested a corrected change in Item #848 on page 53. The request for change of credits to 3-12 should be changed to read: Change credits to 1-6. Mr. Shelley moved that the recommendations of the Committee, with this change in Item #848, be adopted. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "D." He moved adoption of the recommendation to modify Rule I-4 of the Regulations for Undergraduate Students, 1960-1961, to read as follows:

The normal schedule of hours for each term, varying with the curriculum in which the student is registered, shall consist of from 8 to 13 credit hours of work per week. No regular student with a schedule of less than 8 credit hours shall be permitted to remain in the University without special action of his College or the approval of the director of his Commonwealth Campus and approval by the Dean of Admissions.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

The report of the SENATE COMMITTEE ON COMMITTEES which had had the approval of President Walker was distributed at the meeting. D. V. Josephson, Chairman of the Committee, pointed out that "All committee appointments become effective immediately following Commencement Day, June 10, 1961." The report is as follows:

Report of the Senate Committee on Committees

Senate Committees — 1961-62

Academic Standards: Hayes, J. S., Chairman; Riebel, L. Jeanne, Vice Chairman; Austin, Deborah; Conger, Ray M.; Davison, H. M.; Ford, D. H.; Kniffin, F. W.; Livingston, J. E.; Reen, C. G.; Stahl, C. D.

Admissions: Stoner, R. G., Chairman; Goodwin, H. E., Vice Chairman; Anderson, B. G.; Bradley, J. F.; Britton, J. H.; Burcik, E. J.; Hardenbergh, D. E.; Stoddart, C. W., Jr.; Willower, D. J.; Bemreuter, R. G., ex officio.

Athletics: Wherry, R. H., Chairman; Perez, L. J., Vice Chairman; Bratzler, J. W.; Keith, M. L.; Niebel, B. W.

Calendar and Class Schedule: Read, H. J., Chairman; Nelson, G. K., Vice Chairman; Aspaturian, V. V.; Snyder, Helen; Wartik,

Thomas; Miller, J. E., ex officio; Ganter, Marjorie (Student); Klein, Harvey (Student).

Committees: Josephson, D. V., Chairman; Noll, C. L., Vice Chairman; Bixby, P. W.; DeNovo, J. A.; Houghton, Dorothy; Kautz, R. W.; Perez, L. J.; Ridge, J. D.; Sykes, C. M.

Continuing Education Policy: Reede, A. H., Chairman; John, M. E., Vice Chairman; Bosch, Gerald; Deno, N. C.; Fuqua, Mary; Hager, C. F.; Harnett, A. L.; Jones, D. C.; Knerr, H. W.; McCord, R. E.; Albrecht, H. R., ex officio; Keller, E. L., ex officio.

Courses of Study: Shelley, P. A., Chairman; Saylor, R. B., Vice Chairman; Ayres, Ruth W.; Dixon, J. A.; Free, G. J.; Griffiths, J. C.; Ricker, R. R.; Vierck, R. K.; Watrous, G. H., Jr.; Dennis, L. E., ex officio; Schilling, H. K., ex officio.

Educational Policy: Schantz, J. J., Jr., Chairman; Murray, R. K., Vice Chairman; Cook, F. H.; Fenske, M. R.; Morgan, Winona; Sprague, H. B.; Thiel, G. N.; VanderMeer, A. W.; Williamson, M. A.; Zook, H. D.; Dennis, L. E., ex officio.

Faculty Affairs: McGarey, D. G., Chairman; McClay, D. R., Vice Chairman; Adams, Martha; Colwell, R. M.; East, Marjorie; Ferguson, J. H.; Hartman, H. L.; Hutchison, A. W.; Pendered, N. C.; Thuerling, G. L.

Library: Hosler, C. L., Chairman; Gates, Ruth, Vice Chairman; Ascah, H. E.; Durant, Della; Eiche, R. E.; Hutton, H. K.; Maw, A. J. G.; Osborne, M. S.; Schilling, H. K.; Williams, A. L.; Dennis, L. E., ex officio; McComb, R. W., ex officio; Osborn, E. F., ex officio.

Military Instruction: Rayback, J. G., Chairman; Smith, C. J. Vice Chairman; Baer, E. E.; Bates, T. F.; Lloyd, W. A.; Pashek, R. D.; Thompson, S. E.; Torkelson, G. M.; Washko, J. B.; Cain, W. J., ex officio; Glenn, H. R., ex officio; Richie, E. B., ex officio; Smith, R. E., ex officio.

Research Policy: Marin, Joseph, Chairman; Matson, F. R., Vice Chairman; Brown, I. V.; Charnbury, H. B.; Dunne, H. W.; Gray, A. R.; McAulay, J. D.; Montgomery, J. E.; Mueller, E. W.; Strong, E. P.; Osborn, E. F., ex officio.

Rules: Whisler, B. A., Chairman; Waters, R. H., Vice Chairman; Lewis, A. O.; Stevens, G. Z.; Bernreuter, R. G., ex officio.

Scholarships and Awards: Durant, Della, Chairman; Bissey, L. T., Vice Chairman; Beittel, K. R.; Blanchard, C. R.; Gjesdahl, M. S.; Lethbridge, B. B.; Lowenberg, Miriam; Mook, M. A.; Tukey, L. D.

Student Affairs: Lattman, L. H., Chairman; Hall, F. T., Jr., Vice Chairman; Densmore, Barbara; Hylbert, K. W.; Bernreuter, R. G., ex officio; Kniffin, F. W., ex officio; Lipp, Dorothy, ex officio; Simes, F. J., ex officio; Foianini, Dennis, President, Student Government Association, ex officio; Huffman, Jay, Vice President, Student Government Association, ex officio; Rilling, Ruth, President, Association of Women Students, ex officio.

Sub Committees (Student Affairs)

Academic Honesty: Kinsloe, Helen, Chairman; Carnahan, F. L., Vice Chairman; Matson, Margaret; Grumer, Eugene, (Student); MacRae, Desmond, (Student).

Organization Control: Black, Alex, Chairman; O'Brien, H. J., Vice Chairman; McKinley, D. H.; Eisman, Dennis, (Student); Teichholtz, Marilyn, (Student).

Discipline: Lattman, L. H., Chairman; Walmer, John.

* Other members of committee as provided for under Article II, Section 1, N-3 of the Senate By-Laws.

Comments and Recommendations for the Good of the University

Ruth Silva, elected senator from the Graduate School, commented on the parking problems experienced by members of the faculty and moved that the Senate Committee on Faculty Affairs investigate the basis on which floating permits are given to members of the student body. The motion was seconded and passed.

President Walker discussed with the senators the current problems concerning the budget for the next academic year.

The next regular meeting of the Senate will be postponed from TUESDAY, July 4, 1961 to TUESDAY, July 11, 1961, at 3:55 p.m., the agenda will be distributed on June 29, 1961. The meeting adjourned at 4:40 p.m.

Robert G. Bernreuter
Secretary

Personnel Matters

Dr. C. O. Williams, known to educators throughout the Commonwealth and nationally through various education organizations, will retire July 1 with the title of dean emeritus of admissions and professor emeritus of education.



C. O. Williams

He has served on faculty and staff of the University for 35 years in various capacities, the last three as assistant to the President for special services.

A graduate of Warrensburg, Mo., State Teachers College, Dr. Williams began his professional career as teacher in Tipton, Mo., and included teaching and administrative positions in other Missouri school systems before he came east to complete work for the master of arts degree at Columbia University Teachers College. In 1928 he began conducting extension classes for school teachers in Pennsylvania, his first association with the University. When the program came to a close he joined the faculty at the main campus in 1935 and in 1937 was named head of teacher placement. From 1938-40 he served as assistant director of teacher education and certification in the State Department of Public Instruction while on leave.

In 1949, Dr. Williams was named assistant dean of admissions and examiner and was named dean of admissions in 1951.

As assistant to the President, he has studied standards, admissions, and recruitment, as they are likely to affect the University in the future. He made a study which was designed to enable the University to use its facilities better on a year-round basis and from this study was later evolved the four-term plan.

George J. Free, professor of education, has been named assistant dean of the College of Education, to be concerned primarily with the administration of the student personnel program in the College. He will continue to teach on a part-time basis.

Free has served on the faculty since 1929, when he was named instructor in nature education. He received the bachelor of science degree from Penn State in forestry and the master of science in natural science was conferred by Cornell University. He has completed work in education at both Penn State and Columbia.

(Continued on page four)

Artists series

SUCCESSFUL completion of a pilot "Faculty Artist Series" for The Commonwealth Campuses this spring has encouraged the University to plan a similar program for the next academic year, says Merle E. Campbell, dean of student affairs for the Commonwealth Campuses.

Basic purpose of the program, says Campbell, is to broaden the cultural offerings at the campuses, through lectures and performances in art, music, literature, and other areas. Each consisted of two phases: formal presentation, and informal two-way discussion between artist and audience.

During the spring semester, programs were given at Altoona, Hazleton, Erie, McKeesport, New Kensington, Wilkes-Barre, DuBois, and York, involving ten faculty members. Attendance average 67 per meeting. The public was always welcome, although the presentations were developed primarily for student consumption.

The Penn State Singers, directed by Raymond Brown, associate professor of music, gave the first program, at Altoona on March 17 and at Hazleton on March 26. The Singers, a 20-voice group of undergraduates, sang madrigals and similar music.

Dr. Hummel Fishburn, head of the music department, visited Altoona April 7 and New Kensington April 14 to speak on "Who Wrote That Tune," discussing music plagiarism.

Dr. Stanley Weintraub, assistant professor of English literature, spoke at the Behrend Campus at Erie April 10 on "Would Bernard Shaw Have Liked 'My Fair Lady'?"

Dr. J. Michael Morse, associate professor of English composition, spoke on "How to Tell Good Writing from Bad," at the McKeesport Campus on April 5.

Dr. Harold Dickson, professor of history of art and architecture, spoke at Hazleton April 28 and at DuBois May 11 on "Painting as a Language,"

(Continued on page four)

Outstanding —

(Continued from page one)

five analogue computers in 1953. He was named director of the department's computer lab in 1955.

A native of Kansas, Tarpley obtained the bachelor of science degree at Kansas State College and the master's degree from the University of Illinois.

Dr. Finch has been a member of the faculty at Penn State since 1949. He obtained bachelor of arts and doctor of philosophy degrees from the University of Pennsylvania. During World War II he participated in ordnance research programs of the War Department. He came to the University after four years of teaching at the University of Chicago and assisting in the editing of the Great Books.

Dr. Finch is co-author of "Methodology of the Social Sciences." He has been working on a book, "Experimental Science and Human Wisdom" and last year devoted a leave to research for the book.

Previous winners of the award were: 1958, Dr. Kinsley R. Smith; 1959, Dr. Kent Forester; 1960, Dr. Harold E. Dickson.

Personnel —

(Continued from page three)

✓ **Dr. Donald T. Laird** has been named director of the Computation Center, effective July 1. He has been in charge of the Center since it was organized to serve all Colleges and departments of the University.

Mary Brown Allgood, professor of home equipment, has resigned to become head of the department of home economics at Appalachian State Teachers College, Boone, N. C. She has been a member of the faculty since 1942.

Award Winner



The American Iron and Steel Institute, represented by its President, Benjamin F. Fairless, left, recently presented an award to members of the College of Mineral Industries faculty for a paper written by Dr. William Spackman, right, director of the Coal Research Section; Russell R. Dutcher, assistant director, and William F. Berry, research assistant in the geology department, and by A. H. Brisse, U. S. Steel Corp., at Monroeville. The paper, titled "Coal and Coal Seam Composition as Related to Preparation and Carbonization," won one of the Institute's Regional Technical meeting awards for best paper on a research subject.

CALENDAR

Friday, June 16

Alumni Institute program. At 10:30 a.m., panel on "The Exploding World — 1961." HUB Assembly Hall. At 2 p.m. and at 3:30 p.m., lectures by faculty members in Osmond Lab.

Saturday, June 17

Alumni Reunion All-Class luncheon 12:30 p.m., Recreation Building; parade to Schwab Auditorium 2 p.m.; presentation of awards and President's State of the University address, 2:30 p.m.

Sunday, June 18

Chapel Services, 9 a.m. and 11 a.m., Helen Eakin Eisenhower Chapel. Dr. Luther H. Harshbarger, University chaplain.

Monday, June 19

Opening night of Mateer Playhouse production of Ray Lawler's "Summer of the Seventeenth Doll," at Standing Stone, 8:40 p.m. Play continues all week.

Wednesday, June 21

Artists Series program by Claude Frank, pianist, 8:30 p.m., Schwab Auditorium.

Monday, June 26

Opening night of "Life with Father" by Howard Lindsay and Russell Crouse, at Mateer Playhouse, 8:40 p.m. Two-week run.

Artists —

(Continued from page three)

describing how painting speaks to the eyes.

George S. Zoretich, professor of art, and Stuart H. Frost and Bruce Shobaken, assistant professors, gave a painting demonstration at the New Kensington Center May 11. The demonstration, as a statement of expression rather than a "how-to-do-it" theme, was used to develop a discussion between audience and the faculty.

Dr. Winston R. Weisman, head of the department of art, spoke on "The Art in Architecture," April 27 at York and May 11 at Wilkes-Barre.

Dr. Robert Alexander, assistant professor of art, spoke May 15 at the Behrend Campus on "Picasso and the Two-Faced Woman."

Many other faculty members have expressed a desire to assist in the program, Campbell reports, and the Commonwealth Campuses directors indicate that interest locally in the overall program is developing encouragingly.

faculty BULLETIN

Vol. 48, No. 45

June 16, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MATRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

NEWS IN BRIEF

► **TRUSTEES:** Alumni have re-elected George H. Deike, Pittsburgh, William D. Harkins, Philadelphia, and James B. Long, Blue Bell, to three-year terms on the Board of Trustees. Mr. Deike has served on the Board since 1925, was president from 1956 to 1958, and is now president emeritus. Mr. Harkins has been on the board since 1947 and Mr. Long, who has been president of the Board since 1958, has been a member since 1943.

► **PRESIDES:** President Eric A. Walker, as president of the American Society for Engineering Education, will preside and deliver one of the main addresses at the meetings of the Society, June 26 to 30, at the University of Kentucky.

► **NEW BOOK:** "Life and Thought in Old Russia," compiled and translated by Marthe Blinoff, was published this week by the Pennsylvania State University Press.

Original chronicles describing Great Russian civilization — government decrees, official reports, and passages from autobiographies and essays — illustrate and interpret Russian life through Russian eyes. The era from the late 15th century to the assassination of Alexander II in the late 19th century is covered.

Professor Blinoff taught French and Russian languages and civilization at the University of Minnesota from 1946 to 1960 and now is living in Paris, translating stories and essays of the Russian writer, Konstantin Leontiev.

(Continued on page two)

Distinguished professorship

Industry underwrites 'scholar'

ESTABLISHMENT of a Great Scholars Program designed to advance "the standards of excellence in the fields of graduate teaching and basic research in science, technology, and the humanities" has been announced by the University.

President Eric A. Walker said Rockwell Manufacturing Company, Pittsburgh, of which Willard F. Rockwell, Jr., is president, had pledged a minimum of \$125,000 over a five-year period to establish a distinguished professorship in engineering.

"The University," President Walker commented, "welcomes this new partnership — this new investment — in the advancement of excellence in the fields of graduate teaching and research. With it, a new and potentially the most productive type of cooperation between industry and education is established."

Mr. Rockwell, a graduate of the University, expressed the hope that other corporations would follow this example and cooperate with Penn State in its endeavor to better serve the expanding needs of the Commonwealth.

Penn State for a decade has been endeavoring to upgrade its academic quality through the institution of a variety of programs. Several years ago, for example, it inaugurated a plan whereby distinguished visiting professors are invited to join the teaching faculty for short terms of one, two, or three semesters.

"This new program," President Walker said, "will enable us to invite eminent scholars to join our faculty on a permanent basis. The men we will seek will already have achieved a reputation among their peers as having advanced significantly the knowledge in their fields of specialization."

He noted that public universities like Penn State must rely on private support to acquire the margin of excellence that makes for a distinguished university.

"Participation in the Great Scholars Program," he observed, "amounts to an investment in our most productive capital resource — the ability to expand knowledge and to use it wisely and constructively."

He indicated that the search for a man to fill the Rockwell professorship would begin immediately.

He said the annual grant of the company will be sufficient to meet the salary of the scholar, the salary of a secretary, and incidental expenses such as travel. The annual cost is estimated at somewhere between \$25,000 and \$30,000.

The participating corporation further agrees to support the program for a minimum period of five years.

Summer term

Enrollment for the Summer Term, the initial term under the new Academic Year Calendar, totaled 5,357 on Friday, June 16, and approximately 200 more were enrolled on Monday, June 19.

Included in the enrollment are 2,028 graduate students, about the same number as enrolled in the 1960 Summer Sessions programs if individuals rather than the total figures for the five different sessions are considered.

There are also 510 freshmen beginning their college careers on the University Park campus with the largest numbers enrolled in the College of Engineering and Architecture and the College of the Liberal Arts. There are 113 in each College.

There are 471 special students and others and 191 enrolled for camp programs.

Enrollments for special programs during the Term will continue to increase the registration total.

Ogontz, with 257 students, has the highest enrollment of the Commonwealth Campuses, while Altoona is second with an enrollment of 90.

The total for the current ten-week Summer Term, which will continue through August 24, exceeds the largest number of students on the campus at any one time last summer. During the First Six Weeks Session and the Mid-Term, the total was 4,154.

Enrollments last summer were 1,494 for the First Six Weeks Session and 1,392 for the Second Six Weeks Session. There were 2,227 for the three-week Inter-Session; 2,660 for the six-week Mid-Session; and 972 for the three-week Post-Session.

(Continued from page one)

➤ **ESPENSHADE HONORED:** The late A. Howry Espensshade, who taught English composition from 1898 until his retirement in 1937, was honored Saturday with the dedication of a bronze bust in the foyer of the Pattee Library.

The bust, the work of the Philadelphia sculptor, Allen Harris, is the 50th reunion gift of the Class of 1911, which also presented to the University busts of the late Fred Lewis Pattee, professor of American literature, and President Edwin E. Sparks.

Professor Espensshade was named registrar of the University in 1909, continuing in this capacity until 1923. He served as vice-director of the \$2,000,000 Emergency Building Fund and then returned to teaching and was named head of the department of English composition in 1928. He died in 1948.

➤ **ECONOMIC EDUCATION:** Formation of a Pennsylvania State Council on Economic Education was recommended by a group of educators representing 12 colleges and universities in a workshop here last week. The group, which met to discuss ways of raising the economic literacy of high school students, hopes to establish a state council which would become affiliated with the Joint Council on Economic Education. Monroe Newman, associate professor and head of the department of economics, was workshop director.

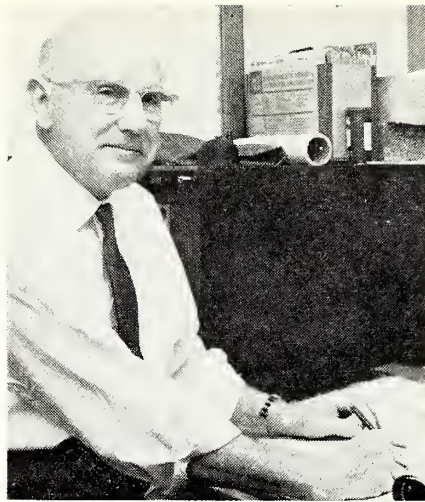
➤ **BEHREND BUILDING:** Officers of the University have let contracts to low bidders for construction of a classroom-laboratory building at the Behrend Campus at Erie.

The one-story building will consist of a main unit and adjoining wing with a classroom for 120 students and offices in the main unit and classrooms and laboratories in the adjoining unit.

➤ **REFUSE COLLECTION:** A new system of refuse collection went into operation this week. In addition to improving sanitation by providing closed containers for trash, the system is expected to pay for itself in less than three years through cost savings.

Refuse will be placed in conveniently located containers where it will be picked up automatically and dumped into a closed container on the collection vehicle.

➤ **PUBLISHED:** Proceedings of the 14th National Conference on Administration of Research, held last year at the University of Michigan, have been published by the Pennsylvania State University Press. It is the fifth year that the Press has published the



WALTER W. TRAINER

proceedings of the Conference. President Eric A. Walker presented one of the papers included in the publication.

➤ **CHILDREN'S GAMES:** Children's games classes, open to faculty and staff children only, will be sponsored by Physical Education 125 class under Della Durant, assistant professor of physical education. Registration will be held 10 a.m. to 12 noon Tuesday, June 27, in White Hall and first and second graders will meet at 9:30 a.m. Wednesdays and third and fourth graders at 9:30 a.m. Fridays. The one-hour classes begin June 28 and 30 and end Aug. 9 and 11.

➤ **LANGUAGE EXAM:** The regular written Foreign Language Examination will be held at 7 p.m. on Monday, July 3. Those in German will report to 121 Sparks Bldg.; French and Spanish, 10 Sparks Bldg.; and English, 205 Sparks Bldg. The conflict examination in German is scheduled for 7 p.m. Wednesday, July 5, in 1 Sparks Bldg.

➤ **MATEER PLAYHOUSE:** "Life with Father," America's favorite comedy, will open Monday, June 26, at Mateer Playhouse and continue through two weeks, including July 4. Gerald Richards and Constance Dix appear in the leading roles of Father and Mother Day.

Personnel Matters

APPOINTMENTS

J. William Wilson, supervisor of employment benefits in the Department of Personnel Services, has been named administrative assistant in the Office of the Vice-President for Business.

RESIGNATIONS

Resignations of five Commonwealth Campuses faculty members have been announced: **Robert C. Baker**, assistant professor of engineering at Behrend, to teach in the Ithaca, N. Y., area;

Planted 5,109 trees

Walter Trainer retires

Walter W. Trainer who has been responsible for the landscape planning and development of the campus for the past 31 years will retire on July 1.

He came to Penn State as a student in 1919, following service in France with the A. E. F., and after receiving his bachelor of science degree in landscape architecture in 1923, served as a landscape engineer with a Philadelphia firm.

He returned to Penn State in 1930 as supervisor of landscape construction and maintenance and as assistant professor of landscape construction.

During his 31 years with the University, the campus has nearly tripled from 203 acres to 535 acres with an additional 65.6 acres at Beaver Stadium; lawn areas have increased from 46 to 153.7 acres, exclusive of the Stadium; and sidewalks that totalled 8 miles in 1930 have expanded to 22.30 miles. Roads have increased from 4.5 miles to 11.5 miles while 26 acres of parking areas now replace the 4.7 acres used for parking in 1930.

Mr. Trainer has seen the removal of 1,700 trees for various reasons and has planted 5,109 trees as well as 47,541 shrubs to bring today's census to 8,509 trees and 50,300 shrubs.

Two years ago, Mr. Trainer, who had been responsible for maintenance as well as planning and construction, was named head of the Division of Landscape Planning, a job that has expanded rapidly as new areas of the campus, such as Graduate Circle Apartments, East Halls, Pollock Halls, and other new developments as well as new buildings on central campus, were completed.

Mr. Trainer's plans for the future include the establishment of his residence in Vero Beach, Fla., where he'll continue his interest in plants, but this time, he'll specialize in tropical plants.

Allen Burns, instructor in history at Behrend, to work toward his doctor of philosophy degree in history at Columbia; **Donald E. Koontz**, instructor in mathematics at McKeesport, to accept a position as assistant professor of mathematics at Elizabethtown College; **Michael F. Smith**, instructor in engineering at Behrend, to accept a position with Associated Spring Corp. and to start work on his doctor's degree; and **David C. Amidon**, instructor in liberal arts at Hazleton Campus, to accept fellowship at University of Pittsburgh and work for doctor of philosophy degree.

Items of interest

Articles and Papers

ALMQUIST, J. O., dairy physiology, a paper at the Fourth International Congress on Animal Reproduction at The Hague, The Netherlands, June 5-9.

BOWHILL, S. A., electrical engineering, a paper on "An Ionosphere Electron Density Experiment Particularly Suited for Small Rockets," at the second annual meeting of the Committee on Space Research in Florence, Italy.

BROWN, J. L., JR., Ordnance Lab, a paper on "Application of the Theory of Orthogonal Polynomials in Two Variables to a Multi-Gain Equivalent Linearization Problem," in the Proceedings of the Institute of Electrical Engineers (London), March, 1961.

CARZO, ROCCO, JR., management, an article in the Spring issue of Indiana University's "Business Horizons" on business organization theory.

CORSO, J. F., psychology, a paper at the annual meeting of the Acoustical Society of America, on "Age and Sex Differences in Pure-Tone Thresholds; Addendum 1: 51 to 57 years."

DICKSON, H. E., art, an article on "Log of a Masterpiece: Barnard's 'The Struggle of the Two Natures of Man,'" in the spring issue of Art Journal.

DRAPER, A. B., industrial engineering, papers at the American Foundry Society Convention on "Some Fundamental and Thermal Aspects of Die Casting;" "The Effect of Median Grain-Size on the Properties of Green Sand;" and "Developing Standard Times for the Job Foundry."

ENGASS, ROBERT, art and architectural history, an article, "Neapolitan Seicento at Sarasota," in the May issue of the Burlington Magazine.

GREENHILL, L. P., DARS, an article titled "Research Film Colloquium" in the American Institute of Biological Sciences Bulletin, June issue.

HEXNER, E. H., economics, a paper on "Worldwide International Economic Institutions: A Factual Review" in the March issue of Columbia Law Review.

JORGENSEN, R. N., and MURPHY, W. K., Forestry, papers at the annual meeting of the Forest Products Research Society, June 18-23, both dealing with particle geometry and resin spread in oak flake board.

KENDIG, P. M., Ordnance Research Laboratory, an article, May issue, Journal of the Acoustical Society of America, titled, "Factors that Determine the Equivalent Noise Pressure, Free-Field Voltage Response, and Efficiency of a Transducer at Low Frequencies."

LECZNAR, F. J., mineral preparation, an article in the March issue, Journal of Scientific and Industrial Research on "The Influence of Thermal Shock on the Severance of Quartz Grains from Iron Oxide Mass."

— an article in the same publication on "Reduction of Low Grade Iron Ore with Carbon: Influence of Time and Temperature."

LINDSAY, R. W. and PINNOW, K. E., metallurgy, a paper titled "Some Factors Affecting the Chill Behavior of a Roll-Type Cast Iron," at the American Foundrymen's Society Castings Congress.

LUMLEY, J. L., engineering research, an article on "Distribution and Dispersion in

the Euler-LaGrange Random Walk," in Vol. 10, No. 2, Applied Scientific Research.

MARIN, JOSEPH, engineering mechanics, a paper at the annual meeting of the American Society for Testing Materials this month, on "Predictions on Creep of Structural Joints."

NAGEL, S. S., a paper on "Testing Relations between Judicial Characteristics and Judicial Decision-Making" at the 19th annual Midwest Conference of Political Scientists, at the University of Missouri.

PATEL, S. P., mechanical engineering, a paper on "Inertia Impaction in Cyclone Separators" at the summer meeting, American Society of Mechanical Engineers, co-authored with Binark, M. H.

PAYNE, IRENE, agricultural and biological chemistry, an article on "Renal Clearance of Calcium and Phosphorus in Experimental Urolithiasis," in the May-June issue of the American Journal of Clinical Nutrition.

ROSE, ARTHUR, and SUPINA, W. R., chemical engineering, an article in the April issue of the Journal of Chemical and Engineering Data, on "Vapor Pressure and Vapor-Liquid Equilibrium Data for Methyl Esters of the Common Saturated Normal Fatty Acids."

RUBIN, J. J., American literature, an article on "Equal Rights of Whitman's Leaves of Grass," in the Emerson Society Quarterly, Spring Issue.

STACHIW, J. D., Ordnance Research Laboratory, an article, "Hollow Core Structures for High Pressure Hulls," in May-June issue, Undersea Technology.

WILLOWER, D. J., education, an article in research bulletin of Council for Administrative Leadership on "Leadership Styles and Administrator Perceptions."

WISLICENUS, G. F., Water Tunnel, an article titled "University Research in Engineering" in the May issue of Mechanical Engineering.

Publications

HALL, J. F., psychology, the book, "Psychology of Motivation," published May 1 by J. B. Lippincott.

HARTMAN, H. L., mining engineering, the book "Mine Ventilation and Air Conditioning" published by Roland Press Co.

Patents

SEELEY, R. M., Ordnance Research Lab, a patent for a "Combined Amplitude Comparator and Indicator."

Honors and Awards

BAZAKAS, P. C., Ogontz, selected for Summer Institute in Field Geology for College Teachers of Geology sponsored by National Science Foundation at Indiana University Field Station, Tobacco Roots Mountains, Montana, June 19 to July 30.

POLAKOWSKI, K. J., landscape architecture, special mention for design of a shopping and recreation center, sponsored by Mobile Home Research Foundation.

Lectures and Talks

ADAMS, E. A., studio art, a talk on "Color and Form in the 20th Century Art" at a meeting of Beta Sigma Phi sorority.

BEAVER, P. S., Continuing Education, a talk on "The Management Lag," at the annual Industrial Sales Conference of Pennsylvania Electric Association.

DELACY, W. J., education, a talk before the York County Chief School Administrators, on "The Role of the School Study Council in the Improvement of Public Education."

FINCH, H. A., philosophy, a paper on "Information-theoretic Meaning of Logical Implication," before the Fullerton Philosophy Club, Bryn Mawr College.

— address at the Altoona Campus Convocation June 4.

FISHER, K. H., foods and nutrition, a talk before medical staff, Veterans Administration Hospital, Coatesville, June 28, on "Current Trends in Foods and Nutrition."

KOCHANOWSKY, B. J., mining, a talk on "Field of Application, Benefits and Limitations of Angle Drilling," at the Coal Show, American Mining Congress, Cleveland.

McKINLEY, D. H., business administration, a talk before the Franklin County bankers on, "The Out-Of-Balance International Balance Sheet of the United States."

O'BRIEN, H. J., speech, a talk before the weekly assembly at Wyomissing Center, on "Why Don't They Listen?"

PALLADINO, N. J., nuclear engineering, a talk on "What Atomic Energy Can Do for Industry," before the Central Pennsylvania Chapter, Society for the Advancement of Management and the Clinton County Supervisors Club.

ROSE, ARTHUR, chemical engineering, a talk before the Harrisburg Engineers Club, on "Demineralization and Cleaning of Saline and Waste Waters by Freezing and Other Methods."

TAYLOR, CLARICE G., hotel and institution administration, at the in-service training program for cooks of the Maryland State department of Health, Department of Mental Hygiene, and Commissioner of Personnel, on "Nutritional Values of Foods" and "How to Plan Modified Diets."

THOMPSON, S. E., hotel and institutional administration, two lectures in Washington, D. C., at the meeting of the National Restaurant Association Executive Development Program on "The Fundamentals of Executive Leadership" and "The Fundamentals of Personnel Management."

Elected and Appointed

ALBRIGHT, G. H., architectural engineering, appointed member of the Building Research Institute programs planning committee.

GUEST, L. P., psychology, elected division representative of the business and industrial section of the Pennsylvania Psychological Association.

KOCHEL, I. H., Behrend, elected president of the Erie (Pa.) Rotary Club.

LEPLEY, W. M., psychology, elected president of the academic division of the Pennsylvania Psychological Association.

MACKENZIE, OSSIAN, Business Administration, elected national secretary-treasurer of Beta Gamma Sigma, business administration national honorary.

SCHAEFER, C. J., industrial education, chairman National Association of Industrial Teachers Educators' committee to consider formation of national organization of youth clubs for industrial education students.

ZEIGLER, M. L., student affairs research, appointed to the Subcommittee on Electronic Computers of the American Association of Collegiate Registrars and Admissions Officers.

Alumni fund

A check for \$197,396.48 was presented Saturday by J. E. Holtzinger, chairman of the 1961 Alumni Fund, to President Eric A. Walker.

The check represents contributions made to date to the 1961 Alumni Fund, which will continue until June 30.

Included in the amount are the gifts from 10,625 alumni and friends of the University.

Robert E. Beam, director of the Alumni Fund, points out that the 1961 Fund represents the third highest amount contributed since the program was organized in 1953. The record amount was received last year when the total was \$252,797.43 while the Centennial Fund of 1955 totalled \$234,196.79.

The 1955 Fund with 12,134 contributors holds the record for number of contributors while this year's total of 10,625 takes second place in number of participants.

CALENDAR

Friday, June 23

Lecture and recital, Claremont Quartet, 8 p.m., Assembly Room, Hetzel Union Bldg.

Saturday, June 24

Square Dance, 9 p.m. to midnight, ballroom, Hetzel Union Bldg.

Sunday, June 25

Chapel, 9 a.m., Helen Eakin Eisenhower Chapel, the Reverend Preston N. Williams, assistant University chaplain.

Communications Institute for High Schools opens. Ends June 30.

Engineering Seminar on R and D Management Development opens. Ends June 30.

2d annual AFL-CIO Community Services Institute opens. Ends June 30.

Monday, June 26

"Life with Father" opens at Mateer Playhouse. Continues Monday through Saturday until July 8. Curtain: 8:40 p.m.

Duplicate bridge, 7 p.m., ballroom, Hetzel Union Bldg.

23d annual Reading Conference opens. Ends June 30.

Engineering for Tomorrow Program opens. Ends June 30.

Tuesday, June 27

Concert, Claremont Quartet, 8 p.m., ballroom, Hetzel Union Bldg.

Grange Leaders Conference opens. Ends June 29.

Garden Days Conference opens. Ends June 29.

Pennsylvania 4-H Congress opens. Ends June 30.

Wednesday, June 28

Chess club, 7 p.m., card room, Hetzel Union Bldg.

Outdoor movie, 9 p.m., south lawn, Hetzel Union Bldg. (Pavilion in case of rain).

Annual meeting, Pennsylvania Poultry Federation, opens. Ends June 30.

16th annual Ceramics Association meeting opens. Ends June 30.

Thursday, June 29

Lecture-discussion, 12:25 p.m., Eisenhower Chapel. Charles M. Freeman, assistant professor of rural sociology extension, on "Helping People Decide Their Future through Community Development."

Friday, June 30

Lecture and recital, Claremont Quartet, 8 p.m., Assembly Room, Hetzel Union Bldg.

faculty BULLETIN

Vol. 48, No. 46 June 23, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

News in Brief

► **NEW RATE:** Effective July 1, the rate charged for passenger vehicles requisitioned from the University fleet will be 7 cents per mile.

► **MATEER PLAYHOUSE:** The comedy, "Life with Father," will continue at Mateer Playhouse through Saturday, July 8. Performances are scheduled for 8:40 p.m. each night, except Sunday, and including July 4.

► **ALUMNI FUND:** The 1961 Alumni Fund, which will close today, early this week passed the \$200,000 mark.

► **ASEE PRESIDENT:** President Eric A. Walker, as president of the American Society for Engineering Education, presided at executive board and general council meetings of the American Society for Engineering Education meeting at the University of Kentucky this week. He delivered the presidential address at the general session Monday afternoon. Members of the College of Engineering and Architecture faculty participating in the meetings included Dean Merritt A. Williamson, Dr. Otis E. Lancaster, Dr. Benjamin A. Whisler, Gifford H. Albright, Nuredin N. Mohsenin, and Melvin W. Isenberg. Other participants were Kenneth L. Holderman, co-ordinator of Commonwealth Campuses, and Dr. Marsh W. White, professor emeritus of physics.

► **PUBLICATIONS AND RESEARCH:** The 31st annual number of "Publications and Research and Other
(Continued on page two)

More research urged

TV advertising under study

RESULTS of studies conducted by the Division of Academic Research and Services, under grants from the Television Bureau of Advertising, support a contention which a segment of the public has held for a long time — namely, that millions of dollars are spent by advertisers without a clear knowledge of their audience or of what is most effective in communicating with it.

"The basic research required to develop an understanding of what is effective in television advertising just hasn't been done," says Dr. C. R. Carpenter, director of DARS, "nor is much known about the specific reactions of people to the various elements of advertising.

"It is unfortunate, really, that many costly decisions in the advertising world are based too much on opinions, and too little on facts."

"Research on the Communication Process" is the title of a lengthy report made by DARS last October after a two-year study by its staff. Assisting Dr. Carpenter were Leslie P. Greenhill, Dr. Frank P. Hartman, and John D. Hundley. Dr. Leland L. Beik, associate professor of marketing in the College of Business Administration, made a special study and report.

Substantial contributions to the research were made by Dr. Leon Arons, vice president of research for the Television Bureau of Advertising.

"The majority of research in the field of advertising and in education," the report points out, "is of the applied type and is most likely to be

superficial and *ad hoc* to a practical and immediate problem and therefore of temporary and limited value."

Only A Beginning

The Penn State studies are considered only a beginning in the program which will be needed ultimately to solve the problems of television communication. However, several advances were made which are considered significant:

1. A bibliography of some 3500 references on communications research was compiled. The bibliography was made available to the U. S. Office of Education, at its request, to aid in its attempts to set up a clearing house for such research literature.

2. A classification system for research literature was set up.

3. A research plan was developed for study of multiple variables in multiple channels of communication using closed-circuit television to present varied stimulation simultaneously to several groups of subjects.

4. Some steps were taken to develop a method for determining relationships between actual everyday messages (such as television commercials) and what is remembered from the messages.

"Studies of the available literature on communications research," Dr. Carpenter says, "strengthened our conviction that what is needed is systematic analytical and contextual studies of the effects of communication variables, and conditions of use in terms of desired results."

One systematic study was made by Dr. Hartman, now at Dickinson Col-
(Continued on page three)



C. R. CARPENTER

Eisenhower here

Former President Dwight D. Eisenhower is scheduled to address a luncheon meeting here on July 6. The luncheon is included on the program for a conference of Explorer Scouts which will open July 5 and end July 8.

The former President's program will also include a tour of six sports clinics provided for the Scouts by the College of Physical Education and Athletics.

Nearly 1,000 Explorers from Region III are expected to attend the conference of which the Department of Air Science is co-sponsor. They will hold discussions on choosing colleges and careers.

(Continued from page one)

Contributions" for the year ending June 30, 1961, is now in preparation. Members of the faculty and staff are requested by Dr. E. F. Osborn, vice-president for research, to report scholarly contributions, prepared in accordance with the style designated, to the office of their Dean.

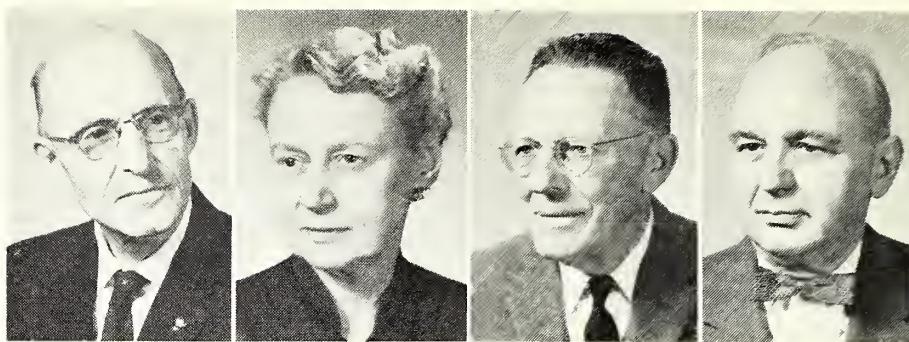
► **RADIO:** The facilities of the student station, WDFM, were used last week by the Teachers' Educational and Professional Standards conference to enable more than forty small groups to hear a lecture and immediately following the lecture, without moving to another room, conduct discussions on the subject matter. It is believed this procedure gives the discussion groups the advantage of immediacy and sustained interest which sometimes is lost when groups adjourn and reassemble in a new location.

► **NEW BOOK:** "Fiasco at Fredericksburg" by Capt. Vorin E. Whan, Jr., is the newest book to be published by The Pennsylvania State University Press. The book of 159 pages is based on letters, diaries, and memoirs of the officers and men who fought at Fredericksburg as well as official War Department letters of both sides. It is the first analysis that has made use of all the materials now available. Captain Whan, who served two years as assistant professor of military science and tactics here, is a graduate of the University of Alabama and received his master of arts degree here.

► **BOC SCHOOL:** The 7th annual Band, Orchestra, and Chorus School will open July 5 and continue through Aug. 5, enrolling about 70 high school students. Dr. Hummel Fishburn, professor and head of the departments of music and music education, will direct the school, assisted in the various areas by the following faculty members: James W. Dunlop, band; Theodore K. Karhan, symphony orchestra; and Frank Gullo and W. Paul Campbell, choral.

► **ART:** Hobson Pittman has returned as visiting professor of art to teach oil painting during the first six weeks of the Summer Term. The final four weeks of work in oil painting will be conducted by Robert Mallery, of New York, N. Y.

► **AEC GRANT:** The U. S. Atomic Energy Commission is continuing its support of research directed by Dr. Joseph Jordan, professor of chemistry, on "Enthalpy Titrations in Fused Salts." The new grant for one year totals \$20,196.



Kribs

Miss Locklin

Jeffries

Rice

Served from 30 to 42 years

Faculty members retire

FOUR FACULTY members with service ranging from 30 to 42 years are among the academic personnel who will retire on July 1.

* * *

Dr. Charles D. Jeffries, professor of soil technology, who will retire with emeritus rank, joined the faculty in 1919, the year he received his bachelor of science degree in agricultural and biological chemistry from Penn State. His master of science degree was conferred by Penn State and the doctor of philosophy by the University of Wisconsin.

He initially served as an assistant in animal nutrition and transferred to agronomy in 1927. In the early 1930s, he pioneered in research in the field of soil mineralogy.

* * *

A. Pauline Locklin will retire as professor emerita of English after serving on the faculty 37 years. Her bachelor of arts degree was conferred by Middlebury College and her master of arts by the University of Illinois. She taught in Montpelier, Vt., high school prior to her appointment at

Penn State and she plans to continue her teaching career as professor of English at the Alaska Methodist University in Anchorage, Alaska.

Miss Locklin has specialized in English Renaissance lyric poetry and the works of Edmund Spenser and in 1959 spent five months in England and Ireland conducting research.

* * *

Dr. David A. Kribs, who will retire as professor emeritus of botany, is one of the leading authorities on foreign hardwoods. He has served on the faculty since 1931.

A graduate of the University of Minnesota where he received his bachelor of science and master of science degrees, he completed work for the doctor of philosophy degree at Yale. From 1931 to 1941, he taught at the Mont Alto campus of the School of Forestry.

He is the author of the book "Commercial Foreign Woods on the American Market."

* * *

Quartet returns

The Claremont String Quartet, an internationally-known recital group, has returned for the third summer as quartet-in-residence.

The group consists of Marc Gottlieb and Vladimir Weisman, violin; William Schoen, viola; and Irving Klein, cello.

Their program this summer includes three lecture-recitals and five concerts. Remaining on the schedule are lecture-recitals on June 30 and July 14 and concerts on July 11, 18, 21 and 25. All programs are presented at 8 p.m. in the Hetzel Union Building.

Philip X. Rice, associate professor of electrical engineering, will have completed 32 years of service when he retires. He began teaching at Penn State in 1921, accepted a position with industry in 1923, and then returned in 1931.

His bachelor of electrical engineering and professional degree of Electrical Engineer were conferred by the University of Arkansas and his master of science by Penn State. He holds several patents for inventions he made in the field of railway appliances and traffic controls.

Top writers here

Leading writers and critics will participate in the 5th annual Pennsylvania Contemporary Literature Conference which opens here July 3 and continues through July 21.

Dr. L. S. Lingenfelter, professor and chairman of the English department at Millersville State College and director and founder of the Contemporary Literature Writers' Conference, will serve as chairman as he has done at earlier conferences held at Millersville.

Malcolm Cowley, for three decades one of the best-known analytical and sociological critics of modern literature, will participate during the final week, July 17 to 21. During the second week, July 10 to 14, John Ciardi, poet, editor, teacher, and critic will conduct sessions on poetry. Margaret L. Coit, Pulitzer prize-winning biographer and author of "Mr. Baruch," will discuss biographical writing during the first week, July 3 to 7.

Other well-known writers on the program are Richard Gehman, James Dugan, Alice C. Cramer, Betty Finnin, Mildred Savage, and Shirley Watkins. Dr. Stanley Weintraub, assistant professor of English, is handling the conference arrangements.

To study problems

To make available an agency with personnel specially qualified to conduct studies, assemble facts, and make recommendations on which the best possible decisions can be made, a department of management engineering will be established, effective July 1.

George L. Thuring, professor of industrial engineering, has been named director of the department and will be responsible to A. E. Diem, vice-president for business. During the Fall Term, he will also devote part-time to teaching industrial engineering.

Some of the fields in which work will be done initially are non-academic floor area usage, furniture and non-academic equipment requirements for new space, operational equipment studies, work systems studies, repetitive work-method studies, and establishment of non-academic job standards.

While the studies initially will be in the area of the business operations of the University, Mr. Diem believes that other departments will also seek the help of the new agency in studying their problems.

Mr. Thuring, a member of the industrial engineering faculty since 1947, has had extensive experience in this type of work with industry.

TV advertising —

(Continued from page one)

lege, but then a member of the DARS staff, using 1184 Penn State freshmen to test the learning mechanism involved when pictures, sound, and printed words are used in various combinations to "teach." In the study, pictures of people were shown to the students and a name associated with each picture, by print or by sound. Various testing combinations also were used, and the student was asked to indicate in the test which of a large number of faces and names had been shown in the "learning" situation.

"The significance of such studies," says Dr. Carpenter, "lies in the fact that we do not yet know, with certainty, how to put pictures, sound, and the printed word together to produce the most learning.

"To the television advertiser this should be of extreme importance; it may be that the way the commercial is designed, aside from its specific content, may produce less favorable reaction than it should.

"It had been shown previously, and Dr. Hartman's study corroborated the thesis, that it is possible to produce less learning by adding print to the picture and to sound than you would have by print, sound, or picture alone. Interference may take place because of 'channel overload.' Pictorial illustration in many cases may distract rather than supplement or reinforce."

Says Dr. Hartman in his report: "Attention getting devices . . . are of value only if they neither distract from learning which is already taking place nor continue in competition with the material to which they are supposed to direct attention."

Basic Research Needed

From the standpoint of the overall studies, the results have their greatest importance in re-emphasizing the fact that much basic research, such as that of Dr. Hartman's, is needed to dispel some of the myths and fancies which have directed the course of television advertising.

Dr. Beik, in his study, concerned himself as much with developing methodology for future studies as for obtaining immediately usable data.

Dr. Beik's studies made use of television commercials, some 50 of which were obtained and reviewed. Eight were finally used: four 10-second, one 20-second, and three 60-second films.

Basically, Dr. Beik's study sought the answer to two questions: What class of events — audio (voice and sound) and video (picture and print) — demonstrate greater impact on the viewer as measured by immediate re-

call? What influences (length of film, coordination of classes of events, etc.) appear to have the most bearing on the number of recall mentions obtained?

The students used in the study were asked not only to recall the specific events of the commercials but also to explain why the events impressed themselves on the student's memory.

Conclusions General

Several general conclusions were reached, including the thesis that although longer commercials generate more recalls, shorter ads are more efficient in that the total recalls-per-second are greater.

"Of more importance, we feel," says Dr. Carpenter, "are the techniques developed by Dr. Beik for evaluating the effectiveness of commercials in generating recall. The study, of course, had nothing to do with whether the commercial influenced the person, but unless recall is effective, attitudes cannot develop."

One result of the work done by DARS has been a frank recognition by the Television Bureau of Advertising (which is supported by more than 240 television stations here and abroad) that much research needs to be done.

In a special brochure published recently, TvB says: "We are convinced that no one yet knows how to evaluate the effectiveness of either advertising or of advertising media."

TvB, to encourage more basic and fundamental research, developed a "Competition for Exceptional Plans in the Field of Television Research," hoping to stimulate creation of new research that can be applied to communication measurement.

"Over 140 plans for research have been submitted," says Dr. Carpenter, "and some of them are excellently constructed."

There is little question in the mind of Dr. Carpenter and his staff that such research is badly needed. They have long doubted the foundations on which certain television advertising practices are based since fundamental communications studies have been either lacking or contradictory.

"Most discouraging," says Dr. Carpenter's associate, Mr. Greenhill, "is the fact that even the testing methods for obtaining judgments have been poorly developed in many cases in the television industry. In other words, the conclusions drawn from the data obtained were not justified.

"The report of the TvB, however, is an encouraging sign. There is still reason to hope that the advertising industry will do something about its television commercials."

CALENDAR

Friday, June 30

Lecture and recital, Claremont Quartet, 8 p.m., Assembly Room, Hetzel Union Bldg.

Saturday, July 1

Square dance, 9 p.m. to midnight, ballroom, Hetzel Union Bldg.

Sunday, July 2

Summer Chapel, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Neal Riemer, associate professor of political science.

Executive Management Program opens. Ends July 29.

Monday, July 3

"Life with Father" continues at Matcer Playhouse through July 8. Curtain: 8:40 p.m. Duplicate bridge, 7 p.m., card room, Hetzel Union Bldg.

Housing the Family Course opens. Ends July 15.

Fifth Pennsylvania Contemporary Literature Conference opens. Ends July 21.

Foreign Language Examinations, 7 p.m., German in 121 Sparks Bldg.; French and Spanish in 205 Sparks Bldg.; and English in 205 Sparks Bldg.

Tuesday, July 4

Independence Day recess.

Wednesday, July 5

Chess Club, 7 p.m., card room, Hetzel Union Bldg.

Outdoor movie, 9 p.m., south lawn, Hetzel Union Bldg. (Pavilion in case of rain).

Elected Explorer Delegates Conference opens. Ends July 8.

Conflict examination in German, 7 p.m., 1 Sparks Bldg.

Thursday, July 6

Interlandia international folk dancing, 7:30 p.m., Waring Hall Lounge.

Mixed swimming, 8-9:30 p.m., Glennland pool.

Swimming for faculty women and wives, 3:30-4:30 p.m., White Hall pool.

Friday, July 7

Physics Colloquium, 4:15 p.m., 117 Osmond Laboratory. Roland H. Good, Institute for Advanced Study, Princeton, on "Classical Equations of Motion for a Polarized Particle in an Electromagnetic Field."

Open dance, 9-12 p.m., HUB ballroom.

Saturday, July 8

Square dance, 9-12 p.m., HUB ballroom.

Personnel Matters

APPOINTMENTS

Dr. Henry G. Bugbee, Jr., professor and chairman of the department of philosophy at Montana State University, has been named professor of philosophy, effective Sept. 1.

He is a graduate of Princeton and his master of arts and doctor of philosophy degrees were conferred by University of California.

Dr. Edward C. Budd, of Yale University, has been appointed professor of economics, effective Sept. 1. He received his bachelor of arts and doctor of philosophy degrees from University of California.

Frank W. Burnett, in charge of the National Weather Analysis Center, is serving from June 16 to July 7 as visiting professor of meteorology.

Dr. Robert O'Brien, for the past 20 years an officer in the U. S. Army with command and staff duties, has been named associate professor of international affairs with the Center for Continuing Liberal Education, effective June 1. He is a graduate of the University of Maryland and received his master of arts and doctor of philosophy degrees in international relations from Georgetown University.

William Allison, a member of the engineering staff of Century Lighting, Inc., New York, N. Y., has been named assistant professor of theatre arts, effective July 1. His bachelor of arts degree was conferred by the University of Michigan and the master of fine arts by the Yale University Drama School.

John M. Harrison, formerly associate editor and chief editorial writer for the Toledo, O., Blade, has been named assistant professor of journal-

ism, effective Sept. 1. He received his bachelor of arts and master of arts degrees at State University of Iowa.

Dr. Sanford D. Schemnitz, who has been a temporary instructor in forestry at Mont Alto, has been named assistant professor of wildlife management, effective July 1. He received his bachelor of science degree in forestry at the University of Michigan, the master of science in wildlife at the University of Florida, and a doctor of philosophy degree, also in wildlife, from Oklahoma State University.

Paul W. Pierson, who has been associated with the landscape maintenance program for 15 years, has been named head of the division of landscape planning, succeeding Walter W. Trainer, who will retire July 1.

Lewis E. Barr, associated with the B. F. Barr and Son Nursery, Lancaster, for the past 17 years, succeeds Mr. Pierson as head of the division of landscape and farm maintenance.

DEATHS

Dr. Henry G. Barone, associate professor of mathematics, died June 22, at the age of 56. He had served on the faculty from 1927 to 1930 and since 1943.

Dr. Frederick W. Owens, professor emeritus of mathematics, died June 23, at the age of 80. He had served on the faculty from 1915 until his retirement in 1949 and was head of the department of mathematics from 1926 until 1949.

George W. Slocum, of Milton, a trustee from 1932 to 1959, died on June 19 at the age of 80. He served on the Executive Committee of the Board from 1944 to 1959 and also had been chairman of the Committee on Long-Range Development and the Committee on Educational Matters.

faculty BULLETIN

Vol. 48, No. 47

June 30, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Four dates set

DATES have been set for the first four evaluations to be undertaken by the University this Fall.

"Outside" specialists will visit the campus to evaluate the Department of Petroleum and Natural Gas September 17, 18, 19 and 20.

Two evaluations will be held in October — Geography, and Sociology and Anthropology. Included in the latter will be rural sociology, a part of the Department of Agricultural Economics and Rural Sociology in the College of Agriculture.

The dates — October 15, 16, 17, 18 — will be identical.

Dates also have been set for the evaluation of the Department of Chemical Engineering. They are November 26, 27, 28, 29.

The dates have yet to be set for the evaluation of the School of Journalism in December.

In 1962, the tentative schedule follows:

January: Meteorology and Architecture, including Landscape Architecture.

February: Languages (German, Romance, Slavic).

March: Psychology.

April: Agriculture and Biological Chemistry; Bacteriology; Botany and Plant Pathology; Zoology and Entomology.

May: Speech.

June: Nuclear Engineering.

July: Physics.

Excellence is objective

University to launch thorough self-study

A department-by-department self-evaluation which is considered unique both in its scope and in its approach will be undertaken by the University within the next few months.

Dr. M. Nelson McGeary, secretary of the Standing Committee on Evaluation, says it probably will be more soul-searching than any self-study ever before attempted by a major institution.

The Committee, of which President Eric A. Walker is chairman, anticipates that the University-wide evaluation, involving 65 departments, will be completed by 1965.

The purpose of the program, according to President Walker, will be to determine "the professional merit of what we are doing; and if what we are doing is not good, to find out how we can improve it."

Evaluations have already been conducted in several areas and these programs have served to lay the groundwork for the expanded program which will begin in the Fall.

"The evaluation will be at least as detailed as that made in 1955 by the Middle States Association," says Dr. McGeary, "but by making a more thorough study of our own, the University will be eligible in 1966 for a type of evaluation by Middle States which will be less detailed and much more flexible."

DETAILED REPORT

The departmental evaluations will require a detailed report from the department itself, and will be followed by an equally exhaustive study by a team of "outside" specialists.

One or two evaluations will be scheduled each month. Each evaluation, says President Walker, will consist of two parts.

"In the first of these," he explains, "the department will conduct its own

self-evaluation. The department is expected to make this a truly penetrating examination.

"All members of the department are to participate in this self-appraisal — constructing a detailed statement of the department's goals and objectives and then measuring actual performance against these goals.

"In the second part, a team of 'outside' evaluators — men and women with distinguished records for performance within the same discipline — will be asked to make an independent appraisal of the work of the department."

These visiting experts, he notes, must not have had any previous official connection with the University, and are to be the most distinguished people available.

For the evaluation of a professional department — electrical engineering, for example — the team will include a practicing engineer who is not an educator. The "task force" formed by these experts will report directly to the President of the University.

"Through this procedure," the President observes, "we hope to find out as much about our progress qualitatively as we already know about our progress quantitatively."

Each department head and Dean will be asked to suggest names to the Standing Committee before the evaluation.

(Continued on page two)

A SPECIAL ANNOUNCEMENT

SELF-STUDY—

(Continued from page one)

ators are finally chosen by the Committee and the President.

At least one person of wide reputation who is in a top-flight department at a large university having the same mission as Penn State will be asked to serve on each team. A member qualified to judge graduate programs also will be invited.

Each member of the evaluating team will be furnished a copy of the departmental report and considerable other material, including catalogs, biographical and professional information on each staff member, and other information such as his (or her) teaching, research, administrative, committee, and continuing education loads.

Additional information, such as budgets and long-range plans, will be made available to each evaluator as he reaches the campus.

The evaluators will make two reports — one written and one oral — to the President. Copies of the written report will be made available to the department.

FIRST EVALUATION

First department scheduled for evaluation under this program will be the department of petroleum and natural gas engineering. This evaluation has been set for September 17, 18, 19 and 20.

President Walker, in authorizing the project, told the Standing Committee on Evaluation:

"It is relatively easy for us to measure our progress quantitatively. But what about our progress qualitatively? Just how good are our programs of instruction and research, and what can we do to make them better?"

NO SUBSTITUTION

From time to time, the programs of many departments are evaluated by professional societies, such as the Engineers Council for Professional Development. Where possible, the scheduling of two evaluations — that of the department and that of the professional society — may be coordinated but, according to the Committee, these evaluations may not be substituted for each other.

Traditionally, evaluations of academic departments have been thought of as necessary steps in the accreditation of a department or university by an association or society, says Dr. McGeary.

Although accreditation still relies on evaluations, he adds, it no longer is the sole purpose in conducting evaluations.

The Middle States Association has pointed out that its system of evaluations has three basic purposes:

1. To ensure that each member institution periodically renews the clarity of its over-all goals, aligns its

programs with them, and measures its performance by them;

2. To increase direct exchange of ideas among member institutions; and

3. To help the Commission on Institutions of Higher Education to maintain a reliable list of institutions whose purposes, resources, and performance merit public confidence.

The University's goals in the current undertaking, Dr. McGeary notes, are somewhat similar.

An attempt will be made, he explained, to schedule the visits of evaluators in such a way that evaluators may study two or more departments simultaneously if the basic work of the departments is comparable.

OVER-ALL COORDINATION

Coordinating the departmental evaluations with the over-all University program will be Kenneth L. Holderman, coordinator of Commonwealth Campuses.

The institutional self-study will be completed by 1965 in order to precede the visit of the Middle States Association in 1966.

Dr. McGeary said the self-evaluation will encompass the University's System of Commonwealth Campuses — a complex of 13 two-year centers scattered throughout the State.

Many of the questions the department will consider, it was pointed out, are similar to those asked by the Middle States in its evaluations. Under the heading of "Objectives," for example, the following questions will apply:

1. What are the functions of the department?

2. What personal attainments and characteristics is the department's educational program designed to produce?

3. Do the department's objectives, or point of view, distinguish it in any significant way from others of its kind?

"OUTCOMES"

And under the heading of "Outcomes," the Middle States asks questions such as these:

1. What evidence have you on the academic and professional qualifications of your students at graduation?

2. What opportunities and what help do you give your students to develop a sense of values and to practice independent judgment?

To answer these questions authoritatively, the Committee believes, will require the participation and cooperation of each and every member of the University's faculty.

Philosophy praised

PRESIDENT WALKER several years ago asked himself the question: "Just how good is Penn State academically?"

While considerable evidence, including the last report of the Middle States Accreditation Association, already was at hand, he believed more information was necessary.

This was particularly true, he thought, because of the rapid pace at which the University had grown during the last ten years.

In search of the answer, he pondered the advisability of bringing "outsiders" onto the campus to look at our operation on the departmental level. Philosophy readily agreed to such an examination.

So impressed was President Walker by the thoroughness with which the two evaluators — Paul Weiss, Yale University, and Richard M. Martin,

University of Pennsylvania — undertook their task that he decided almost immediately to do these studies on a University-wide basis.

The President said he learned much from the written report and that the two evaluators were completely frank in their oral report.

"The department," he explained, "received an excellent rating from the evaluators. And we — the department and myself — learned that even more could be accomplished if we did certain things. This, to me, is the most valuable part of these studies."

Professors Weiss and Martin, in their report, found "the temper of the students . . . the good-will of the faculty . . . the desire of the administration to promote the interests of learning" outstanding and characterized the department as "alert . . . well-read . . . intelligent . . . and ambitious."

Theme: quality in quantity . . .

MOST serious of these criticisms, it seems to me, are those based on the assumption that, in education, quality and quantity, like oil and water, do not mix. According to this assumption, we can, as Dr. John Gardner, president of the Carnegie Corporation, has pointed out, choose to educate a few people exceedingly well or to educate a smaller number somewhat less well, but we cannot do both. And, since we cannot do both, we must concentrate our energies and our resources on the education of an intellectual elite.

This assumption, and the conclusion based on it, is meaningful and valid only when quality in education is measured against an arbitrary, fixed standard. For this standard, some critics have recently turned to European models. Most, however, are thinking of American institutions with high reputations for excellence but with rather restrictive objectives. At the elementary and secondary school level, they are thinking of the private college-preparatory schools. At the collegiate level, they are thinking of a handful of venerable institutions with long histories of instruction of the highest level.

This assumption of a single, fixed standard of excellence in education in America has given rise to some unfortunate prejudices — prejudices that have serious implications for education in our country — prejudices that could easily spell the difference between whether we do, or do not, as a country, solve the difficult problems we face.

One of these prejudices relates to size. It has somehow become fixed in American mythology that a large educational institution cannot maintain quality, a curious reversal of the American creed "the bigger, the better." Large schools or colleges, it is believed, are simply "diploma mills" or "degree mills." The University of Michigan's medical school was once considered to be the best in the country, but a study made by the *Chicago Tribune* showed that some authorities "doubt that it can maintain the superlative standards which have given it such distinction" now that it has become the largest school of its kind in the United States. With charming inconsistency, however, this same study showed that Harvard is unanimously considered America's best university — and Harvard is not a small institution. With over 12,000 full-time students, it ranks seventeenth in enrollment among America's almost 2000 colleges and universities.

Of course, the quality of the instruction depends on the quality of the teaching, not upon the size of the institution. I suspect it is as easy to get poor teaching in a small school as it is to get it in a large one. The large school, college, or university, however, is usually able to provide the teacher with more and better tools to help him do a better job — counseling and guidance services, libraries, shops, laboratories, and the like. In some areas such as engineering, the physical sciences, and medicine, the equipment necessary for instruction is today so expensive that work in them cannot be offered at all by small institutions.

Another such prejudice — one closely related to size — is that a low teacher-student ratio is necessary for superior instruction. We have accepted this as we accept an axiom in mathematics — being self-evident, it requires no proof. Yet there is good evidence that Mark Hopkins could have put many students on the other end of the log without having decreased the effectiveness of his teaching. A study conducted at Fordham College measured the effectiveness of instruction in control classes of 30 with experimental classes of 60, not only in relation to subject-matter assimilation but also in relation to those intangibles that are generally believed to be sacrificed to numbers. The study showed no significant difference in learning effectiveness between the two groups. A study conducted at the Uni-

Three years ago, President Walker gave a talk titled "Quality in Quantity." It attracted widespread attention and was reprinted in full by several educational journals. The President sought, in that talk, to demolish what he called "prejudices" concerning public higher education. A sizeable segment of that talk is reprinted here for your information and guidance.

versity of Michigan in 1955 showed no difference in achievement between large and small classes in high school mathematics. European schools and universities, which many people today seem to feel are superior to our institutions, normally teach mathematics in large classes. Because of this, one of the best technological institutes in America now teaches math in sections of 70 students, the sections being limited to this number only by class-room size. The president of this institute told me that they have been very happy with the results of this experiment in terms of student performance and have no plans for returning to smaller sections, even though they could afford to do so.

The results of these experiments do not prove that large classes are more effective than small ones. They do confirm, however, the wisdom of systematically re-examining this ancient pedagogical axiom.

Another prejudice is that only certain types of curricula and subject matter are respectable. At the school level, this subject matter is generally

(Continued on page four)

Quality is keynote

PENN STATE's bid for academic quality has been constant and growing for the last ten years.

Admissions standards, for example, have been tightened gradually until the vast majority of incoming freshmen now come from the first fifth of their high school graduating classes.

Freshmen also get off to a better start, thanks to the Division of Counseling and its summer program under which first-year students come to the campus with their parents for a day of intensive pre-registration counseling.

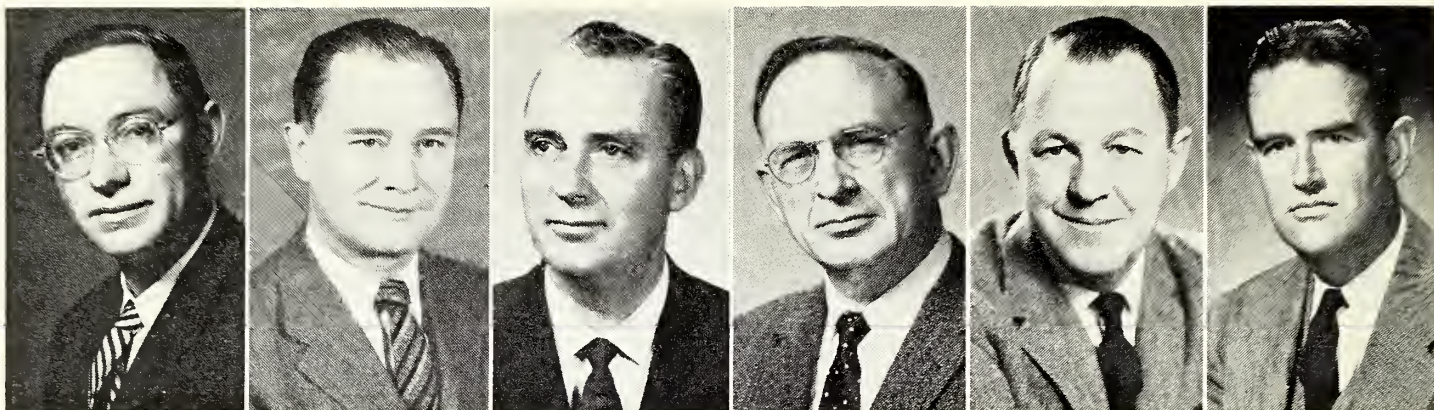
Evidence that this program is paying dividends comes from an improved retention rate in every class; from the larger numbers who reach graduation; and from a significant drop in the number requiring remedial English.

President Walker early in his administration set the tone for this new emphasis on quality by addressing

educational leaders throughout the State on the subject of "Quality in Quantity." This address was reprinted in a half dozen educational journals.

The President since has accelerated his program of improvement by establishing an annual President's Award for Superior Teaching; instituting a program of distinguished visiting professors; and most recently, by inaugurating a Great Scholars Program which, with financial aid from business and industry, will enable him to add distinguished teachers and researchers to the University's permanent staff.

This search for excellence was inferentially applauded in 1958 by the election of the University to the Association of American Universities — a select group of 41 "nationally prominent institutions with sound and proven records in the fields of scholarship and teaching."



Members of the Standing Committee on Evaluation are, (l. to r.): President Walker, chairman; Dr. Howard A. Cutler, assistant to the President for academic affairs; Dr. E. F. Osborn, vice president for research; Dr. Harold K. Schilling, Dean of the Graduate School; and Kenneth L. Holderman, coordinator of Commonwealth Cam-

pus. Dr. M. Nelson McGeary, professor of political science, is secretary. Mr. Holderman is commissioned to coordinate the total operation with the Middle States Association accreditation plans. The Dean of the College in which a department or a division is being evaluated also serves the Committee as an ad hoc member.

QUALITY—

(Continued from page three)

believed to consist of the "three R's," perhaps with some foreign languages thrown in for good measure. At the collegiate level, it consists of the traditional arts and sciences offered by the prestige institutions. In its study, the *Chicago Tribune* based its rating of the faculties of American universities on their distinction in 28 "branches of the humanities and the biological, social, and physical sciences." These branches included far eastern languages but not engineering, fine arts but not agriculture, anthropology but not business administration, Greek and Latin but not home economics.

According to this prejudice, your programs in vocational education are not — and cannot be — as respectable as your college-preparatory programs, and our associate-degree programs cannot be as respectable as our curricula in the liberal arts.

This, of course, is simply not true.

The best possible education occurs when the interests and abilities of our young people are carefully matched with quality programs to prepare them for useful, rewarding work in our society and economy. We must honor work in all useful areas, if we are to attract qualified students and teachers to those areas. Dr. Gardner has reminded us that we need both plumbers and philosophers and, unless we provide quality education for both, neither our pipes nor our ideas will hold water.

A fourth dangerous prejudice, one that is closely related to the idea that only certain programs are respectable, is that the instruction in public institutions of education is, *per se*, inferior to that offered by private institutions. The source I quoted at the beginning of my talk, for instance, finds no reason for eliminating our public schools. Such schools, he says, "are required for the huge number of children who must be given some kind of education, even if it is inferior."

But is it, really? There seems to be no real evidence for this conclusion. In 1953, the over 5000 public-school seniors who took the College Entrance Examination Board tests achieved a higher mean score on seven out of the nine tests than did the almost 3000 private-school seniors who took them. In 1954, Harvard's enrollment was equally divided between graduates of the public schools and graduates of the private schools; yet 64 per cent of the students invited to join Phi Beta Kappa, the national honorary scholastic society, were graduates of the public schools. Records at both Yale and Colgate showed the same thing. In 1957, 80 per cent of the winners of National Merit Scholarships were graduates of public schools. The public high schools enroll about 90 per cent of all students at the secondary school level, but a much higher percentage of the work in the private schools is concentrated on preparation for college than is that of the public schools.

faculty BULLETIN

Vol. 48, No. 48

July 1, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

News in Brief

► **ENROLLMENT:** Total enrollment at the conclusion of registration activities of Friday, June 30, stood at 5,671 for the University Park campus, 458 at Commonwealth Campuses, and 191 at summer camps (forestry, geology, and architecture).

Of the total at University Park, 2,708 are undergraduates, 2,472 are graduate students, and 491 are specials. Of the undergraduates, 593 are freshmen, 519 sophomores, 609 juniors, and 974 seniors, with 13 additional students enrolled in the 13-15 terms. Men number 1,772 among undergraduates, women 936.

At Commonwealth Campuses, 59 are enrolled at Altoona in the four-year programs and 31 in two-year associate degree programs; 14 are enrolled at DuBois; 9 at Hazleton; 250 at Ogontz; 17 at Pottsville; 43 at Wyomissing; for a grand total at the Commonwealth Campuses of 458.

► **CONSERVATION:** A \$1,000 grant has been made by the Pennsylvania Game Commission to Dr. H. S. Fowler, associate professor of nature and science education, to assist his work in the Conservation Education Laboratory. The funds will be used to help meet operating expenses of the Laboratory and provide scholarships to aid school teachers attending. There will be two sessions of the Laboratory this summer, the first of which enrolled 18 teachers.

► **AWARD:** Dr. C. Drew Stahl, head of the department of petroleum and natural gas engineering, has been

(Continued on page three)

Mining looks to Penn State

ADDITIONAL evidence that Penn State's efforts in the field of mining are widely recognized is furnished by the attention being given currently to proposals by Dr. Boris J. Kochanowsky that could change drastically present methods in surface-mine operation.

Hard-headed businessmen who own and operate mines (coal, limestone, iron, etc.) are anxious to reduce costs wherever they can, but they never rush into a new machine or new method without some very solid reasons.

Dr. Kochanowsky, member of the department of mining, has given excellent reasons, from theoretical and practical standpoints, that his method of "inclined drilling" will reduce costs of mining, increase safety, and be an advantage in at least a dozen other ways over methods widely used for the past half-century.

Very much simplified, inclined drilling is a method of boring a hole downward into rock not vertically (as has been the practice) but at an angle to the vertical. After the hole is drilled (whether inclined or vertical) explosives are inserted into the hole and detonated, breaking thousands of tons of rock or ore into sizes which can be handled easily.

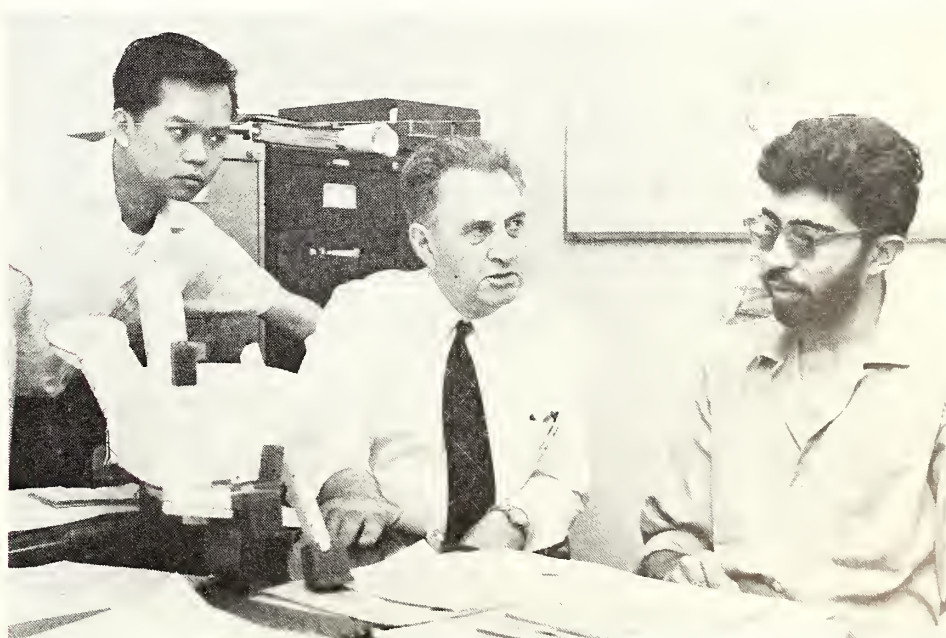
Dr. Kochanowsky cautiously suggested the inclined drilling method as early as 1955, although he was sure of his ground on the economic advantages of the method. After all, he had used modifications of it in Germany in the late 'thirties when he was as-

sistant to the president and general manager of the mining operations of the Rheinische Kalksteinwerke, part of the raw materials division of the United Steel Corporation, controlled by Friedrich Krupp and August Thyssen. He was then in charge of all the company's mining operations, which are the largest in Europe, and on his shoulders lay the planning, development, production, and research administration.

But Dr. Kochanowsky has been accustomed all his life to "selling" himself and his ideas. Born in Siberia, he had two strikes against him in Hitler's Reich, although he had been educated in the School of Mines at Freiberg, Germany. His mining experience dates from high college days when he worked his way through school as a coal miner.

Finding a position in the early 'thirties was difficult but in 1933 he boldly offered to take a \$37-per-month job with the steel company to prove to the president that in three months he could bring about changes in the company's operations that would reduce blasting costs by 20 per cent and save the company many thousands of

(Continued on page two)



Dr. Boris J. Kochanowsky, center, with two of his assistants, Prasert Kulvanit, left, from Thailand, and Amitava Mookerjee, from India, discuss a proposed shovel for the mining industry.

Mining —

(Continued from page one)

dollars. He proved his point, and in those three months rose from a \$37-per-month worker to the position of assistant to the president. Soon, too, he was adviser to the director of the bureau of mines and was consultant for the largest mining operations in Europe.

Eventually, Dr. Kochanowsky reached Argentina, after a number of years in France and Switzerland, and again he had to sell himself, this time to government officials. He became manager of Asphaltite Mine, Mendoza, Argentina, and instituted many improvements to reduce costs. He was named professor of economics of mining at the National de Cujo, San Juan, Argentina, in 1948 and continued in that position until he came to the United States in 1953. He was adviser to such governmental bodies as atomic energy and fuel commissions on the mining of coal and uranium.

Selling job

His selling job started all over when he came here, in spite of the excellent background of experience he brought with him. In only a couple of years, however, mining people throughout the country in industry and colleges, recognized his work and quoted him widely. In 1955 he discussed "Blasting Research Leads to New Theories and Reduction in Blasting Costs" at the Annual Meeting of the American Institute of Mining, Metallurgy, and Petroleum and pointed out the advantages of inclined drilling. Last December, at the tenth annual Drilling and Blasting Symposium at the Colorado School of Mines, he elaborated on the theory and advantages of his method.

Since December, he has been literally flooded with requests for more information on inclined drilling and the subject has taken much of his time, but as complex as it is, it is only one of the many phases of mining economics in which he is consulted by companies in this country and abroad.

To aid the industry further, The Blasting Research Assistance Program of the department of mining has been announced. The Program is a cooperative venture, to be financed by grants, large and small, from rock and mining companies who will receive in turn the benefits of research and the training of new engineers and scientists badly needed in the field.

"The primary goal of this program," says Dr. Kochanowsky, "is to find ways for reducing production costs in the mining industry. In the long run, education of future engineers for industry will repay many times the in-

vestment these companies will make in the program."

That reduction in operating costs is possible is well illustrated by the fact that with Dr. Kochanowsky's inclined drilling and blasting method, 15-23 tons of rock has been blasted for each pound of dynamite used, while with conventional drilling methods the average in the United States is only 2-5 tons per pound of explosive. He is quick to point out that many factors influence costs but the inclined hole has proved to be one of the most important.

In coal mining, where the largest stripping equipment is in use, drilling and blasting costs are usually calculated as two cents per yard of rock. A company such as the Peabody Coal Co., for which Dr. Kochanowsky is currently making extensive economic studies, would be happy to save a half-cent per yard in production costs, because it would mean a saving of over a million dollars yearly.

The drilling method requires new equipment but already the Joy Manufacturing Co. has produced machinery which will drill holes up to nine inches in diameter at an angle of 30 degrees from the vertical to depths of over a

Granted award

Dr. Harold J. Read, professor of physical metallurgy, has been awarded the Charles Proctor Memorial Leadership Award by the American Electroplaters' Society.

The award is given in recognition of outstanding contributions to the Society and to the fields of science and industry which it represents. It consists of a certificate and \$150.

In the citation, attention was given to Dr. Read's many contributions to the publications of the Society and to his recent efforts in organizing an extensive symposium on hydrogen embrittlement and in editing a book based on the symposium. He was one of the editors of the Society's publications and has written 104 book reviews for its monthly journal.

Dr. Read joined the faculty in 1945 after serving from 1940 as industrial fellow at the Mellon Institute, Pittsburgh. He is a graduate of the University of Illinois which also granted him the master's degree; the doctor of philosophy degree was granted by the University of Pennsylvania.



Dr. Read

hundred feet, and larger and smaller equipment are in the development stage. Dr. Kochanowsky is a consultant to the company, the largest manufacturer of coal mining equipment in this country.

The research to explain the theory of inclined drilling has been done in the Mineral Industries laboratories on plexiglass models, but Dr. Kochanowsky's personal experience in the method has been the strongest selling point in his discussions. The German company of which he was assistant to the president was the largest producer of limestone and dolomite in Europe and the yearly production is 73 per cent greater than that of the entire production of Pennsylvania each year and 25 per cent of the total U. S. production. He is still a consultant for the company.

In addition to reduction in costs and added safety, inclined drilling methods lead to other advantages: better fragmentation, less vibration, greater "throw", and other technical advantages. Because of better fragmentation, costs of loading, hauling, and crushing are also greatly reduced.

Paper Reprinted

Some indication of the attention Dr. Kochanowsky's method has drawn is given by the fact that already the paper he gave last December at Colorado has been reprinted in "Pit and Quarry"; "Rock Products"; and other magazines, and as a special paper of the Atlas Powder Co. Requests have also been received for permission to reprint and the reprints will total over a hundred thousand copies.

Dr. Kochanowsky is currently consultant not only to Joy Mfg. Co. and the German steel company but also Hercules Powder Co., Harnischfeger Manufacturing Co. of Milwaukee, the General Crushed Stone Co. of Easton, Pa., the Peabody Coal Co. of St. Louis, and the Basalt A. G. Linz, of Rheinland, Germany, and in the past has consulted for companies over much of the world.

One of the projects he is working on is the development of a huge shovel which, by unique design, will reduce the time of loading of mined material.

"It is only a matter of saving a fraction of a minute with each loading," says Dr. Kochanowsky. "but it means millions of dollars to a big mine over a year's time."

As a mining economist, he appreciates the value of pennies saved here and there in each operation. So, too, do the hard-headed business men who have come to take seriously Dr. Kochanowsky's suggestions.

College for alumni

An expanded Alumni College will enable more alumni to share in the growing program of continuing education.

About 100 graduates have already been enrolled for the five one-week sessions scheduled for this summer, beginning July 9, and continuing until Aug. 11.

Now in its third year, the Alumni College drew 90 graduates in 1960. Recently, in a New York Times Magazine article, the Penn State alumni college was cited as "an admirable program . . . to bridge educational gaps for alumni in the field of the humanities, to enhance the individual's professional competence and to broaden their understanding of the great questions of the day."

This summer's program will feature courses in literature, history, social and political science, the arts, and communications. Specific subjects will include modern fiction, drama, poetry, and painting, foreign and economic policy, mass media, "The Ways of Mankind," and "The Responsible Man."

The study-discussion groups meet for three hours a day, leaving time for study, recreation, informal discussion, and other special events on campus. A special course on discussion leadership has been added for those interested in leading study groups in their own communities.

The five-man faculty of the Alumni College includes Dr. Cyril F. Hager, director of the Center for Continuing Liberal Education; Dr. Ralph W. Condee, professor of English literature and assistant director for the humanities at the Center; Dr. Robert W. Iverson, assistant social sciences director for the Center; Sol Davidson, editor of "The Arts" magazine and managing editor of "Arts Digest;" and Warren Smith, professor of theatre arts.

News —

(Continued from page one)

named the Ohio Oil Company Industry Fellow for 1961-62. The award is made each year for outstanding contributions to the fields of petroleum engineering, geology, or commerce.

Dr. Stahl will serve as consultant to the Company's research staff and will assist in the preparation of a book on "Reservoir Engineering."

► **PROSPECTING:** A new method of prospecting for refractory clay and some newly outlined deposits of limestone and dolomite are described in a report published by the Mineral Conservation Section. The report includes results of research by Dr. Eugene G. Williams, assistant professor of geology, and Dr. John C. Griffiths, professor of petrography and head of the department of mineralogy, and maps and chemical analyses by Richard R. Thompson, research associate in geology.

► **SHELTER:** Eighteen faculty members and graduate students from twelve colleges and universities will take part in an eight-week professional development program in the field of planning and design of atomic shelters beginning July 10. The Shelter Research and Study Program of the College of Engineering and Architecture will conduct the sessions, which will consist of two two-week seminars and a three-week research and study session.

The program is sponsored by the U. S. Office of Civil and Defense Mobilization. Director of the Shelter Research and Study Program is Gifford H. Albright, associate professor of architectural engineering.

► **GIFT:** The Hershey Chocolate Corp., of Hershey, has contributed \$1,000 to the department of chemistry which will be used toward the purchase of a Raman Spectrophotometer.

Epitaph at Mateer

The provocative drama, "Epitaph for George Dillon" by John Osborne and Anthony Creighton, will open at Mateer Playhouse, Standing Stone, Monday, July 10 with Will Gregory in the lead role and Diana Frothingham as Ruth Gray.

"Epitaph" is directed by Max Fischer. Its theme is the submission of a playwright and actor of talent to the seedy lower middle-class life he scorned. Osborne is labelled one of England's angry young men and the play reflects his philosophy.

Gregory will be making his Playhouse debut with this play. He has appeared on such television programs as "Brenner," "Richard Diamond, Private Detective," "Armstrong Circle Theatre" and "DuPont Show of the Month."

Miss Frothingham, also a veteran television actress, played Cora in "Life with Father," which concludes tomorrow at the Playhouse.

Other roles in "Epitaph" include Gerald Richards as Percy Elliott, Patricia Maguire as Noran Elliott, Constance Dix as Mrs. Elliott, and Beth Brickel as Josie Elliott.

Tickets may be obtained at the Playhouse, at the theatre arts department in Schwab Auditorium, or at various shops in the area. Curtain time of the play is 8:30 p.m.

Concerts at HUB

The Claremont String Quartet, with guest artists, will present the second and third concerts of its summer program at the HUB Ball Room Tuesday, July 11, and Tuesday, July 18, at 8 p.m.

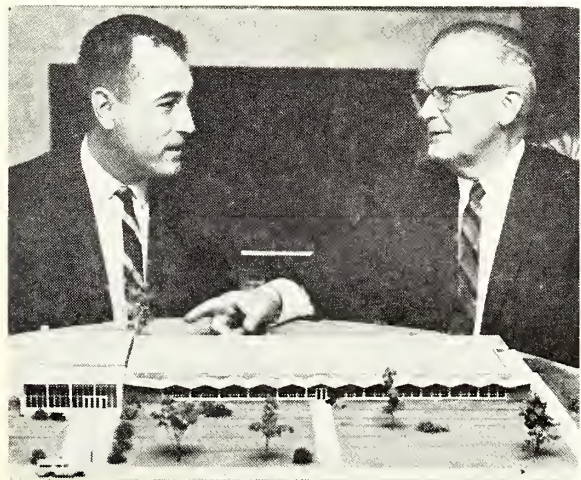
Featured with the Quartet July 11 will be Martin Canin, pianist, who will join the group in three preludes by Debussy and Brahms' Quintet in F-Minor, Op. 34. The Quartet will also play Beethoven's Quartet in E-flat Major, Op. 127.

Walter Lewis, clarinetist, will be featured as guest artist July 18, in the presentation of Mozart's Quintet in A-Major for Clarinet and Strings, K. 581. Other numbers to be played by the Quartet are Haydn's Quartet in F-Major, Op. 77, No. 2 and Beethoven's Quartet in B-Flat Major, Op. 130.

There is no admission charge for these performances.

NOTICE

The University Senate meeting scheduled for Tuesday, July 11, has been cancelled. The Senate will next meet on August 1.



At Behrend

MODEL of the classroom and office building to be constructed on the Behrend Campus of the University at Erie is studied by Irvin H. Kochel, left, director of the Behrend Campus, and Guy W. Wilson, chairman of the Behrend Advisory Board. Ground-breaking ceremony was held two weeks ago.

Personnel matters



Miss Swanson

Myrtle E. Swanson, associate professor of foods and nutrition, has retired after more than 16 years of service in home economics instruction. A graduate of Iowa State College with a bachelor of science in home economics education.

Miss Swanson was granted the master of arts degree by the University of Missouri in 1932. She taught home economics at Kansas State Teachers College at Emporia, Kansas, from 1934-38, then held a post as home advisor for the University of Illinois Extension Service until 1941. She was home demonstration agent in South Dakota and New Jersey Extension Services until 1944 when she came to Penn State to teach food courses during 1943 and part of 1944. She was instructor and research assistant at West Virginia University for a year before returning to the University.

Dr. Robert H. Essenhigh, educated at Cambridge University and the University of Sheffield in England and a member of the faculty at Sheffield since 1959, joined the staff of the department of fuel technology July 1, as associate professor.

Dr. Robert W. Hamilton, member of the U. S. Department of Agriculture research staff stationed at North Carolina State University, has been named assistant professor of botany. A graduate of the University of Illinois in agronomy, he received his master's degree from Rutgers Uni-

versity in 1952 and his doctorate from Michigan State University in plant physiology in 1960. After service in the Army he joined the U.S.D.A. staff in 1954 at Michigan State in the weed investigation section. He was transferred to N. C. State in 1960.

Dr. Friedemann Freund, graduate of the College de Calvin, Geneva, Switzerland, with degrees also from Giessen University and Marburg University in Germany, has been appointed visiting research associate in chemistry. He will work closely with Dr. Karl Gingerich, assistant professor of chemistry.

Elton B. Tait, associate professor of extension information in the College of Agriculture, has been granted a leave of absence from Sept. 18 to June 1, 1962 to do graduate work at Cornell University. He will work toward a master's degree in rural sociology. He is a Penn State graduate.

Recent appointments to the staff include the following:

Albert Dandrea, a 1961 graduate of Penn State in engineering science, as research assistant at the Ordnance Research Laboratory.

Floyd Reeser, a 1957 graduate of the University in electrical engineering with a master's degree in 1960, as research assistant at the Ordnance Research Laboratory. He comes from I.B.M. at Endicott, N.Y., where he was associate engineer in power supply development.

George Loulis, a 1961 graduate of the University in mathematics, as research assistant in physics at the Groth Institute.

Robert Werlwas, 1960 graduate in aeronautical engineering, as instructor in aeronautical engineering, effective Sept. 1.

CALENDAR

Friday, July 7

Physics Colloquium, 4:15 p.m., 117 Osmond Laboratory. Roland H. Good, Institute for Advanced Study, Princeton, on "Classical Equations of Motion for a Polarized Particle in an Electromagnetic Field."

Open dance, 9-12 p.m., HUB ballroom.

Saturday, July 8

Square dance, 9-12 p.m., HUB ballroom.

Sunday, July 9

Concert by George Ceiga, University organist, 8 p.m., Schwab Auditorium.

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Luther H. Harshbarger, University chaplain, on "Reason and Passion."

Opening of following special programs (concluding date indicated): School Lunch Institute (July 14); Engineering Seminar on Planning Aspects of Atomic Shelter (July 21); Steelworkers Institutes (Aug. 11); Summer Alumni College (Aug. 11).

Monday, July 10

Opening night of Mateer Playhouse production of "Epitaph for George Dillon," 8:30 p.m. Continues until July 15.

Duplicate bridge, 7 p.m., HUB card room.

Tuesday, July 11

Claremont String Quartet concert, 8 p.m., HUB ballroom.

Mixed swim, 8-9:30 p.m., Glennland pool.

Wednesday, July 12

Outdoor movie, lawn south of HUB, 9 p.m. "Imitation of Life," with Lana Turner. (Rec Hall in case of rain.)

Chess Club, 7 p.m., HUB card room.

Phi Delta Kappa summer picnic, Holmes-Foster Park, 4-8 p.m.

Opening of Dairy Fieldmen's Conference, concludes July 13.

Thursday, July 13

Interlandia Folk Dancing, 7:30 p.m., HUB ballroom, (beginners welcome).

Mixed swim, 8-9:30 p.m., Glennland pool.

Friday, July 14

Claremont String Quartet lecture-recital, 8 p.m., HUB assembly room.

Mixed swim, 8-9:30 p.m., Glennland pool.

Saturday, July 15

Opening of Mexican Industrial Engineering Short Course, concludes Aug. 25.

Square dance, 9-12 p.m., HUB ballroom.

faculty BULLETIN

Vol. 49, No. 1

July 7, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Films for training

The Pennsylvania Department of Public Instruction has granted \$32,600 for a 17-month period to aid in the production of motion pictures of actual guidance counseling sessions conducted by the Counseling in Education program of the University.

The films will be used in in-service training programs for high school guidance counselors throughout the State.

Dr. George R. Hudson, associate professor of education, and Arthur M. Wellington, professor of counselor education, are in charge of the project.

Plans have been developed to make between 20 and 40 films of between 15 and 30 minutes in length. A counseling room will be used as a film studio and actual counseling sessions with high school students will be filmed to illustrate effective counseling techniques.

The Motion Picture and Photographic Services of the Division of Academic Research and Services, directed by Delmer P. Duvall, will make the films.

Administrators

"Changing Concepts in Educational Administration" is the theme of the 39th annual School Administrators Conference which begins July 16 and continues to July 20.

There will be five general sessions and a banquet session, as well as two supplementary meetings for discussion

(Continued on page two)

News in Brief

► **CREATIVITY:** Dr. Calvin W. Taylor, professor of psychology at the University of Utah, will be the principal speaker at the annual summer conference of the Penn State Graduate Club in Art Education which opens Friday, July 21 at 2:00 p.m. in the HUB Auditorium and continues Saturday, July 22. He will speak on "Research in Creativity."

► **ECONOMIC:** Dr. George Guthrie, associate professor of psychology, will speak on "Mores and Money in Economic Development," in the Chapel Lounge Thursday, July 20 at 12:25 p.m. in a program arranged by the Friends Peace Committee. He will discuss the impact of tradition on development. Coffee and lunch will be available for those who cannot bring their own.

► **CONCERT:** The Claremont String Quartet will present its third formal concert Tuesday, July 18 at 8 p.m. in the HUB ballroom. The program will include Haydn's Quartet in F-Major, Opus 77, No. 2; Beethoven's Quartet in B-Flat Major, Opus 130; and Mozart's Quintet in A-Major for clarinet and strings with Walter Lewis as assisting artist.

► **SEWAGE:** The University announced this week that it will be represented and present testimony at a hearing called by the State Sanitary Water Board in Harrisburg August 17. The hearing has been called to determine whether the permit issued to the University to operate its sewage disposal plant should be revoked, modified, or changed.

► **METALLIC COMPOUNDS:** The Atomic Energy Commission has awarded a \$35,800 contract to the University to continue basic research on a new class of metallic compounds that may be useful at high temperatures. The compounds are made by combining phosphorus with titanium or zirconium and the program is directed by Dr. Karl Gingerich, assistant professor of chemistry.

► **SEMINARS:** Four seminars for architects, engineers, executives, and administrators will be conducted during the summer by members of the Shelter Research and Study Program and other faculty members. They are: "Planning Aspects of Atomic Shelter," July 9 to 21; "Structural Engineering Aspects of Atomic Shelter," July 23 to Aug. 4; "Survival in the Nuclear Age — Executive Management," Aug. 13 to Aug. 18; and "Structural Aspects of Architectural Engineering," Sept. 10 to Sept. 15.

► **VIROLOGY:** A grant to the department of bacteriology by the National Institutes of Health has been renewed for continuation of a training program in virology and general microbiology.

Dr. Ernest H. Ludwig, professor of bacteriology, directs the program which is now in its second year of a proposed five years.

► **LATIN AMERICA:** The International Cooperation Administration has renewed its grant to the department of elementary education in support of the Latin American Education Project, now five years old. The program is directed by Dr. Richard R. Renner, assistant professor of education. Supervisory personnel of elementary schools systems of Central and South America are enrolled in the program for ten-month periods during which time they work with faculty members here in various phases of elementary education and visit schools nearby and throughout the State. Twenty-three teachers are currently enrolled and a new group will arrive October 1.

► **METEOROLOGY:** The National Science Foundation has provided a \$9,330 grant to Dr. Hans Neuberger, professor of meteorology, for the development of lecture demonstrations, laboratory experiments, and observational equipment for teaching elementary meteorology in schools and colleges. Dr. Neuberger plans to develop inexpensive but good equipment for teaching elementary meteorology and to prepare a manual containing 40 to 50 simple experiments which can be performed with materials commonly found in homes and schools.

► **GIFT:** Empire Steel Castings, Inc., of Reading, has given a shell molding machine to the department of industrial engineering which will be used to illustrate the molding process to students and to make castings necessary in manufacturing products for the department.

► **CONCERT:** Students in the orchestra of the summer Band, Orchestra, and Chorus School will present a concert Thursday, July 20 at 8:30 p.m. in Schwab Auditorium under the direction of Dr. Theodore Karhan, professor of music.

The 50-piece orchestra will perform "Suite of English Folk Songs," transcribed by Vaughan Williams; Weinberger's "Czech Rhapsody" and "Bohemian Song;" Williams' "Fantasia on Greensleeves;" and a "Concerto Grosso for String Orchestra," by Geminiani.

University Gives Policy on Public Service

The following statement of University policy regarding public service by members of the faculty and staff became effective July 1, 1961.

Effective democracy requires of every citizen personal participation in political life as a voter, and also as a governmental consultant or official where his or her talents are sought in the public interest. Membership on the faculty or staff of The Pennsylvania State University carries with it additional responsibilities of citizenship which reflect (a) the educator's function as a source of informed, objective counsel, and (b) the compact through which the University receives public funds for use in meeting society's educational and research needs.

The following policies and procedures derive from these commitments and are specified under three categories of personal public service:

I. Public Service of a Professional Character

By virtue of their comprehension of certain areas of human knowledge, University personnel may be asked to serve as:

a) EXPERT WITNESSES whose testimony is sought in establishing, clarifying or interpreting the facts in a matter of public interest.

b) PROFESSIONAL MEMBERS of ad hoc task forces appointed by public officials to prepare factual reports on matters of public interest.

c) PROFESSIONAL CONSULTANTS on matters of personal competence to governmental agencies or task forces.

It is the policy of the University to do what it can, on request, to make its personnel available for such public services:

1) if the individual's University duties can continue to be performed satisfactorily;

2) if the individual confines his testimony or counsel to matters within his professional competence needed by public officials in weighing the relative merits of alternate courses of action; and

3) if the individual's remuneration beyond out-of-pocket expense does not infringe regulations binding on the University. For example, by action of the Executive Board of the Commonwealth of Pennsylvania, "honoraria may not be paid (by agencies or departments of the Commonwealth) to persons who are on the State payroll directly, including those paid by The Pennsylvania State University."

All personnel requested by public officials to perform such services shall notify their respective Deans or administrative officers of the nature and conditions of the assignment, remuneration expected (if any), and the effect the assignment will have on performance of the employee's duties at the University.

II. Holding Public Office at any (Federal, State, Local) Level

Under existing University policies, members of its faculty and staff may accept such public offices as are tendered, and which do not interfere with the individual's performance of his or her contractual duties at the University. In such cases the following policies and procedures shall apply:

a) CANDIDACY FOR ELECTIVE PUBLIC OFFICE
Upon nomination for elective public office, the candidate shall request formal leave of absence without salary from the University for the duration of the election campaign, if:

1) the office for which the individual is running carries with it more than nominal remuneration beyond out-of-pocket expenses; and/or

2) holding such office would interfere in any way deemed significant by officers of the University with the performance of the candidate's assigned University duties.

If the candidate is elected to such office, he or she shall at once resign any administrative position held with the University, but may petition his or her Dean or administrative officer for leave of absence without salary from academic or other non-administrative duties.

University personnel who are candidates for any elective office other than those

described above, have the privilege of seeking and holding such office (e.g., membership on Borough Councils, local school boards) without modification of the terms and conditions of their University status.

b) HOLDING APPOINTIVE PUBLIC OFFICE

The University recognizes the importance of staffing public agencies with knowledgeable people and will cooperate, when possible, by making members of its faculty and staff available for appointive public office under the following conditions:

If the duties and responsibilities of the appointive office do not interfere with the individual's duties at the University (e.g., appointment as a member of a State Board of Licensure), he or she may accept appointment to public office without modification of his or her contract with the University; if the appointment does, in any way deemed significant by officers of the University, interfere with the individual's performance of his or her University duties, he or she shall, upon acceptance of the appointment, resign any administrative position held with the University, but may petition his or her Dean or administrative officer for leave of absence from academic or other non-administrative duties or, in extraordinary situations, from part-time non-administrative service.

III. Participation in partisan, political campaigns

It is the right of every citizen, as a citizen, to participate in partisan political activities: it is the responsibility of University personnel who do so, to comply with the following regulations and policies:

a) the terms of the so-called Hatch Act and its amendments apply to all employees of the University who are paid wholly from Federal funds. The political activities of such persons are specifically restricted by this Federal legislation.

b) the individual's relationship to the University is not to be exploited in such partisan campaign activity, directly or by indirection.

Administrators —

(Continued from page one)

of adult education and of pupil personnel services in elementary schools.

Among the nationally-known speakers to be present are Dr. Jack Culbertson, executive director of the University Council for Educational Administration; Robert S. Fisk, dean of the College of Education of the University of Buffalo; John T. Caldwell, chancellor of North Carolina State College; Daniel Davies, professor of education at Columbia University Teachers College; and Van Miller, professor of education at the University of Illinois.

Other speakers and panelists will be principals and superintendents of schools in the State, and representatives of the State Department of Public Instruction.

Suspense at Mateer

The suspense thriller, "The Deadly Game," by James Yaffe, adapted from the novel, "Trapps," by Friederich Duerrenmatt, will open for a two-week run beginning Monday, July 17, at Mateer Playhouse, at Standing Stone.

Will Gregory, who played the title role in this week's "Epitaph for George Dillon," is the victim in the deadly game. Gerald Richards and Ed Anderson play other leading roles and other characters will be played by Mark Rhudy, Delmar D. Hendricks, Diana Frothingham, and Robert D. Reifsneider, associate professor of theatre arts.

Max Fisher is director. William H. Allison designed the settings. Curtain time is 8:30 p.m.

Mexican short course

A team of 20 engineering professors, selected from various Mexican universities, will study mathematics in decision-making, cost and production control, methods and standards, production engineering, and organization and control during a short course which runs from July 17 to Aug. 25.

The department of industrial engineering has developed the course, which will be given for the third time this year, with the help of the International Cooperation Administration. In the past, the students were Mexican industrialists, but professors were selected this year in the hope that industrial engineering courses may be instituted in colleges and universities in Mexico.

Curriculums revised

THE CURRICULUM in business administration has been revised, curriculums of geology and mineralogy and of geophysics and geochemistry have been consolidated into a curriculum of geological sciences, and a new curriculum in mathematics has been established.

The revised program in business administration, which will offer a better balance between work in the arts and sciences and the professional business program, has been planned to better prepare students entering the changing business world of today.

Dean Ossian MacKenzie, of the College of Business Administration, says the new program is designed to develop problem-solving abilities and to prepare administrators rather than technicians.

However, he finds nothing incompatible in developing a student's analytical and managerial skills and in educating him so that he is employable.

Work on the revision was started as early as 1955 when the first surveys were made of employers of business administration graduates.

The new program will reduce the number of course credits from 129 (excluding R.O.T.C. and physical education) to 123 and at the same time revision of many of the courses of the College is underway.

The new curriculum in geological sciences is likewise planned to prepare students entering the changing field of earth sciences.

Dr. Richard H. Jahns, chairman of the division of earth sciences, says emphasis has been shifted slightly to sounder fundamental training in physics, chemistry, and mathematics. He says the increasing demand among employers and graduate schools is for students with a better grounding in the basic disciplines and for less specialization. Specialization is thus postponed until the student enters graduate work or on-the-job training.

The new program is also expected to eliminate previous over-lapping and duplication in undergraduate programs.

The establishment of the new curriculum in mathematics will lead to a bachelor of science degree and will be an alternative to the program offered as a major in arts and letters which leads to a bachelor of arts degree.

Somewhat lighter in the humanities and social sciences, it will allow mathematics majors more elective freedom in science courses, says Dr. James B. Bartoo, professor and head of the department of mathematics.

One aim of the program is to expedite the training of specialists in such fields as applied mathematics, mathematical physics, mathematical economics, actuarial science, numerical analysis, and some areas of applied statistics.

Double winner

For the second year in succession, the department of public information of the University has received two citations in the annual honors competition of the American College Public Relations Association.

Citations were given for entries in radio and film categories. The radio entry was a 13-week series of half-hour programs devoted to state and national problems and broadcast on a 15-station network. It was voted best of its kind by a jury of radio professionals. Titled "Sounding," the series involved more than 100 students, faculty, and staff members. Gilbert S. Aberg, radio-television specialist in public information, was the producer.

In the film category, a revision of an earlier 15-minute color movie dedicated to the painting of the Land-Grant frescoes in Old Main was also a winner. The film was produced by the Motion Picture and Recording Studio. Reorientation of the film was undertaken to underscore the Morrill Act centennial in 1962. Voice for the new version was Dr. Henry W. Sams, head of the department of English.

Boyer fund started

The late Walter E. Boyer, who taught for eight years before his sudden death May 9 last year, may soon be memorialized in a special fund which has been initiated by an alumnus.

The alumnus has contributed \$100 to Pattec Library to establish the fund in Boyer's name for the purchase of books and materials on Pennsylvania German culture. Boyer was a familiar figure on the Pennsylvania German scene and he was well known as a collector of folk songs and stories, artifacts, and imprints. He wrote dialect plays and in many other ways contributed to the promotion of "Pennsylvania Dutch" culture.

After Boyer's death, a memorial issue of "Pennsylvania Dutchman" magazine was printed in his honor.

Items of interest

Articles and Papers

MURRAY, R. K., American history, an article, "The Three Dimensions of a Changing Academic Environment," in *Phi Delta Kappan*.

Elected and Appointed

MCKINLEY, D. H., banking, re-elected secretary, Pennsylvania Conference of Economists.

OLIVER, R. T., speech, elected, by Speech Association of America, second vice-president for 1962; first vice-president for 1963; president for 1964; executive committee, 1965-68.

SLINGLUFF, T. R., University Press, elected, International Trade Committee of the Association of American University Presses.

WILLIAMSON, M. A., Engineering and Architecture, appointed, chairman, Education Committee of the Pennsylvania Society of Professional Engineers.

Exhibited

PAPPAS, GEORGE, art and art education, oil painting, "Beach Cottage with Figure," Boston Arts Festival.

Honors and Awards

BIRKENMAYER, S. S., Slavic languages, awarded doctor of philosophy degree, University of Wisconsin.

DENNIS, L. E., vice-president for academic affairs (on leave), awarded honorary doctor of laws degree, Cornell College.

MURPHEY, W. K., wood utilization, awarded the doctor of philosophy degree by the University of Michigan.

ELLENBERGER, S. G., county agricultural agent, chosen for Dow Chemical Co. scholarship for agricultural study tour.

SCHWEITZER, P. H., professor emeritus of engineering research, invited by University of Tokyo as guest to lecture and tour Diesel plants.

Lectures and Talks

BREWSTER, R. W., political science, talk, "Government and the Individual," Executive Conference of Brookings Institution.

DENNIS, L. E., vice-president for academic affairs (on leave), two talks, before Department of Higher Education, National Education Association, and Overseas American Educators Organization.

FINCH, H. A., philosophy, invited participant in conference on inductive logic at Wesleyan University.

FISHER, K. H., foods and nutrition, talk on "Recent Advances in Foods and Nutrition" at Lawrence F. Flick State Hospital, Cresson.

HICKS, R. L., advertising, talk, "Teaching Methods and Curriculum Development," American Academy of Advertising.

JOHNSTONE, H. W., Jr., philosophy (on leave), eight lectures on tour of Germany, sponsored by U. S. Information Agency.

MUELLER, E. W., physics, lecture to Metallurgy Department, Oak Ridge National Laboratory, on "The Field Ion Microscope as a New Tool for Basic Research in Metal Physics."

SAUERLENDER, OWEN, economics, talk on "Econometrics in Action" at Pennsylvania Conference of Economists.

WALKER, E. A., president, talk, "Education for Here and Now," to President's Institute of the Institute of College and University Administrators.

Publications

HALL, J. F., psychology, a book, "Psychology of Motivation," published by J. P. Lippincott Co.

Personnel matters

A. Roberts Leisner, assistant professor of English composition, retired July 1 after 15 years on the faculty. Previously he had taught at Temple University, University of New Brunswick, University of Connecticut, and Cornell University. He was an instructor in radio engineering for the Army Air Force during World War II. He plans to continue work on his book-length study of the sonnet.

Joseph R. Cardenuto, associate professor of rural sociology extension, has been granted a leave of absence from June 16 to December 15 to work for his master's degree in rural recreation at the University of Indiana.

Mathew J. Phillips, instructor in English, art and humanities at the Ogonitz Campus, has been given a leave of absence for the next academic year to study art and to prepare an exhibition of his paintings.

Stanley W. Pruss, 1961 graduate in agricultural education, has been named assistant county agent and will work in Butler County.

Resignations of the following faculty members have been announced:

Claude L. Gates, Jr., instructor in physics and mathematics at the DuBois Campus since 1958, to work towards an advanced degree at Indiana State College.

David G. Van Ormer, instructor in chemistry at the Hazleton Campus, to continue graduate study.

Jacqueline A. Dailey, instructor in physical education, to accept a teaching position at the University of Illinois.

Dr. William J. Page, assistant professor of secondary education since 1955, to accept a teaching position at Clarion State College.

Dr. Frederic E. Bellas, assistant professor of engineering research at the Ordnance Research Laboratory, to accept a teaching position at Wilkes College.

Dr. Gertrude Nygren, associate professor of family housing and home art, to accept

a position as program assistant in home economics at Michigan State University.

Johannes H. van den Hende, assistant professor of physics, to accept a position with Esso Research and Engineering at Westfield, N. J.

Dr. William J. Stambaugh, assistant professor of forest pathology, to accept a position at Duke University.

The following appointments to the faculty have been announced recently:

Steven H. French, research assistant, Ordnance Research Laboratory.

Christopher B. A. Peck, research assistant, Ordnance Research Laboratory.

Daniel R. Leasure, assistant dean of men.

Joseph W. Smith, 1960 graduate of Drexel Institute of Technology, as instructor in engineering and physics, at Wyomissing Center.

W. Rogers Sutton, with bachelor's degree in chemistry and master's degree in chemical engineering at Cornell University, as assistant professor of chemistry and chemical engineering, at Wyomissing Center.

Translates book

Carl F. Barnes, Jr., instructor of art and architectural history, has translated and edited Jean Gimpel's "The Cathedral Builders," one of a series of Evergreen Profile Books published from the French Series, Le Temps Qui Court.

The 192-page book is the only book available in English giving a general view of the factors underlying the great building crusade in France in the 11th to 14th centuries. In that period, 80 great cathedrals, 500 large churches, and tens of thousands of small parish churches were built.

In the book the author examines some of the problems faced by the builders, who they were, how they were trained, who paid for the construction of the cathedrals, etc.

CALENDAR

Sunday, July 16

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, assistant University chaplain, on "The Symbols of our Faith."

Monday, July 17

Opening night of Mateer Playhouse production of "The Deadly Game," 8:30 p.m., at Standing Stone. Continues for two weeks, through July 29.

Duplicate bridge, HUB card room, 7 p.m.

Tuesday, July 18

Phi Delta Kappa joint luncheon meeting with Pennsylvania Education Research Association, 12 noon, State College Hotel.

Summer Science Institute, 4 p.m. Room 111 Boucke. Dr. Henry Finch, professor of philosophy, on "Ignorance, Wonder."

English Colloquium, 7 p.m., residence of H. W. Sams. Speaker: Joseph J. Rubin, on "John W. De Forest: His Shapeliest Novel."

Recreation swimming for faculty women and wives, 3:30 to 4:30 p.m., White Hall. Claremont String Quartet concert, 8 p.m., HUB ballroom.

Mixed swim, 8-9:30 p.m. Glennland pool.

Wednesday, July 19

Outdoor movie, "The Cossacks," with Edmund Purdom and John Barrymore, Jr., 9 p.m., lawn south of HUB, Rec Hall in case of rain.

Chess Club, 7 p.m., HUB card room.

Thursday, July 20

Interlandia Folk Dancing, 7:30 p.m., The Pavilion.

Summer Orchestra concert, 8 p.m., Schwab Auditorium, directed by Theodore Karhan.

Mixed swim, 8-9:30 p.m., Glennland pool.

Swimming for faculty women and wives, 3:30-4:30 p.m., White Hall pool.

Friends Peace Committee sponsored lecture, 12:25 p.m. Chapel Lounge. Dr. George Guthrie, on "Mores and Money in Economic Development."

Friday, July 21

Concert by Claremont String Quartet. 8 p.m., HUB ballroom.

Mixed swim, 8-9:30 p.m., Glennland pool.

Meeting of Penn State Graduate Club in Art Education, 2 p.m. HUB Auditorium. Also Saturday, beginning at 8:45 a.m.

Saturday, July 22

Square Dance. 9-12. HUB ballroom.

faculty BULLETIN

Vol. 49, No. 2 July 14, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Correspondence

A program designed to aid South American countries with water supply problems has been developed under the direction of R. Rupert Kountz, professor of sanitary engineering.

The International Cooperation Administration requested the program, which will involve correspondence courses and seminars covering water supply principles; water utility management, financing, operation, and maintenance; water system hydraulics and pumping, and ground water development.

Textbooks and handbooks oriented to the water problems of Latin American countries are now being prepared in the department of civil engineering.

Twenty-five graduate engineers and 175 South American nationals will undergo the program at I.C.A. missions. The correspondence course approach was adopted because of the relative isolation and low concentration of I.C.A. personnel in the South American missions. Brief seminars will be held at missions in Guatemala, Brazil, Peru, and Costa Rica.

Viewer gift to MI

A microfilm viewer, which will be used in instructional work to examine gas flowmeter charts under different conditions, has been presented to the College of Mineral Industries by the New York State Natural Gas Corp., of Pittsburgh.

The viewer will also be used in research in petroleum and natural gas engineering in gas measurement problems and in projecting photographs of the flow of gas and oil from porous rocks.

News in Brief

➤ **REPRINT:** A talk given by Dr. Robert T. Oliver, head of the department of speech, before the Central Pennsylvania Torch Club May 10 has been reprinted in the publication, "Vital Speeches of the Day."

The talk was titled "Writers are People: An Appraisal of the Genus Scribblerus," and in it Dr. Oliver discussed the reasons writers write, their rewards, and the methods of writing they employ.

➤ **MATEER:** The suspenseful play, "The Deadly Game," by James Yaffe, will continue at Mateer Playhouse for the next week, concluding July 29. Tickets are still available at the Department of Theatre Arts office in Schwab Auditorium (UN 5-7586) or at the Playhouse box office at Standish Stone.

The next play to be given is the comedy, "The Tunnel of Love," by Joseph Fields and Peter de Vries, opening July 31.

➤ **SCIENCE:** Dr. Jesse Livingston, head of the department of botany and plant pathology, will address the 1961 Summer Science Institute in Room 111 Boucke Tuesday, July 25 at 4 p.m.

Thursday, July 27, Dr. Egbert Kipp, manager of the Research and Development, Sun Oil Co. at Marcus Hook, will speak on "Research in Industry."

➤ **LITHIUM** A more fundamental knowledge about lithium and rare earth oxide systems is the aim of a research project directed by Dr. Floyd A. Hummel, acting head of the department of ceramic technology, which will be aided by a new grant of \$6,922 by the American Potash and Chemical Corp.

Title of the project is "Phase Equilibria and Physical Property Measurements in Lithium Oxide and Rare Earth Oxide Systems."

➤ **SEMINAR:** A seminar on high school journalism will be conducted July 30 through Aug. 18 under the direction of Eugene Goodwin, director of the School of Journalism. Twenty-seven high school teachers from Pennsylvania and five nearby states will attend the Seminar, which will be conducted on a grant from the Newspaper Fund, a subsidiary of the Wall Street Journal.

Assisting Goodwin will be Charles H. Brown, Robert M. Pockrass, Frederick B. Marbut, Marlowe Froke, Vincent P. Norris, John D. Vairo, and William Dulaney, all of the School of Journalism, and John Cataldo, department of art education.

➤ **CONCERTS:** The Claremont String Quartet will present concerts Friday, July 21, and Tuesday, July 25, at 8 p.m. in the HUB ballroom, to conclude the formal concert series.

The program for July 21 will include "Beethoven's Quartet in A-Major, Opus 18, No. 5; Martin's Quartet No. 3; and Smetana's Quartet in E-Minor."

The concluding program, on July 25, will include Mozart's Quartet in E-Flat Major; String Quartet, Opus 28, by Webern; and Beethoven's Quartet in C-Sharp Minor, Opus 131.

➤ **COLD:** Dr. Adam Anthony, associate professor of zoology, has been granted \$5,750 by the National Institutes of Health to conduct a study on "Oxidative Phosphorylation during Cold Adaption."

He is studying differences in cellular metabolism in animals exposed to low temperature, examining and comparing differences between animals which do not hibernate, such as rats, and those which do, such as chipmunks.

➤ **GRAPHITE:** A \$46,630 grant by the U. S. Atomic Energy Commission will aid work by Dr. P. L. Walker, Jr., chairman of the division of mineral technology, and Dr. H. B. Palmer, head of the department of fuel technology, in graphite research. The studies, which have received A.E.C. aid for the past six years, are concerned with the mechanism of formation of carbon by the decomposition of hydrocarbons and with the kinetics and mechanism of reaction of carbon with oxidizing gases.

➤ **FORECASTING:** The U. S. Weather Bureau has awarded a grant of \$8,668 to Dr. Hans Neuberger and Dr. Hans A. Panofsky, professors of meteorology, to conduct a theoretical study and evaluation of an observation program for short-range forecasting.

Using a new micro-network of stations currently being built around the National Airport in Washington, D.C., it is hoped to develop facts about clouds, ceilings, visibilities, wind velocities, and other elements essential to aircraft operation.

➤ **NEW PROJECT:** Research on a new effect discovered by Dr. Erwin W. Mueller, research professor of physics, will be conducted by Dr. Mueller under a grant of \$25,000 from the Geophysics Research Directorate of the U. S. Air Force Cambridge Research Laboratory. The new effect is "Field-Induced Chemical Reactions."

Rare Books

Charles Mann, Jr., curator of the Rare Book Room at Pattee Library, explains the basic purpose of the collection.



IT IS IN only the past few years that state universities and colleges, recognizing the value of "rare books" in the educational process, have entered the hectic competition for the collection of such publications.

Penn State's rare book collection is, formally, only four years old and with very limited funds the University hasn't been able to offer much rivalry to such affluent institutions as the University of Texas and the State University of Iowa, among others of the newcomers, and Harvard of the veterans.

"But," says Charles Mann, Jr., curator of Rare Books and Manuscripts collection of Pattee Library, "as modest as our collection is, it includes some very useful books and other publications, especially for certain areas of study our faculty and graduate students are likely to be interested in."

There is, for example, the growing list of books by American authors, based on the collection of Fred Lewis Pattee, professor of American literature from 1894 to 1928 who was recognized as a pioneer in his field. In 1958, the Board of Trustees voted to establish The James Milholland Memorial Fund for the continuance of the Pattee Collection, and included in the Fund a gift by the late president of the Board. As a result, the Pattee Collection now totals nearly 2,200 volumes and is classed as one of the outstanding collections of American literature.

"Not all the books in this collection can be classed as 'rare' in the sense that few copies are available," says Mann, "but then a rare book collection isn't limited to scarce books."

"A rare book — according to but one definition — is any book which,

because of scarcity, age, association value, or local interest, has unusual monetary, research, or other value. Our collection is built on that basis."

In the past few years many books have been added to the Collection at the request and with the advice of faculty members, either because of their personal research or for that of graduate students. For example, Robert Enggass, associate professor of art, suggested purchase of a book of paintings and biographical information on certain artists, a book which was published in Nuremberg in 1768.

"Because of our limited funds," says Mann, "we have to be extremely selective in our purchases and in many cases the departments provide the money rather than the Library. In either case, the usefulness of the book, periodical or manuscript is emphasized."

"We are not in the position of some universities of being able to afford a book simply because it is the only one of its kind; we try to think in terms of value in teaching or research."

The oldest book in the collection, — which, incidentally includes 29 books classified as incunabula, or very early books — was published no later than 1477 and is the New Testament in Latin, published in Cologne by Conrad Winters. It is part of the collection of Bibles which has reached outstanding stature and which includes all four Sauer Bibles, the first of which was the first Bible in a

European language to be printed in this country. It also includes the Aitken Bible (first English Bible in the U. S.), and a 1611 King James Bible. The collection was given considerable strength through the gift of the Plumb Collection by Claude G. Aikens, State College resident, in 1943.

There is a debate in library circles over the basic purpose of a rare book collection, some curators maintaining that the basic aim should be to preserve books which might be lost without special attention. Other librarians insist that, at least for libraries such as the University's, "preservation for use" should be the aim.

"Probably a university rare book room should perform more than a museum function," says Mann. "There are, however, certain areas of collections where preservation is justified for its own sake."

"In a sense, this is true of the Pennsylvania Imprints collection, which is kept in the Office of the Librarian, Mr. McComb. This is a collection of more than 1,500 books which were printed in the State before 1840."

Although it would add more glamor to the picture to say that rare books are found in dusty attics, unnoticed and unappreciated, such sources are only occasionally productive. More likely sources are dealers and private collectors and they most likely have to be purchased.

"But it is an interesting facet of our work," says Mann, "that the larger your collection becomes, the easier it is to get additional materials, and especially gifts. We feel that although we do not get many books from dusty attics, those we do get are worth the

effort, and the intimate contact with the public is helpful in furthering public relations."

The variety of titles now listed in the 8,000 volumes in the collection underscores the range of demands on it, in a University which emphasizes teaching and research in so many fields. On file, for example, is the American Turf Register and also the "Fasciculus temporum" of Werner Rolevinck, published in 1479 in Venice. Or there is Bret Harte's "The Pliocene Skull," published in 1871 and a welcome addition to the American literature collection, as well as a book by Copernicus concerning his theories of astronomy.

Among manuscripts on file are items (in various forms) by Shaw, Jean Giraudoux, Thomas Bailey Aldrich, Robert Frost, Edgar Lee Masters, H. L. Mencken, Hamlin Garland and nearly 200 other writers, most of them American.

Over the past number of years the Library has acquired a number of good friends, alumni, former faculty members, or complete strangers. The late Roy Laurens Bovard, a 1907 graduate in electrical engineering, gave a valuable collection of books and other items of The Renaissance in 1953 and with it a sum of money to purchase special items to add to the collection. On his death, in 1958, the University received from his estate a sum of \$10,000 to purchase books to add to the Renaissance Collection. Many, although not all, are in the Rare Book Collection.

Eunice McCloskey, of Ridgway, Pa., a poet and painter, has contributed some 500 items, including correspondence from Faith Baldwin, Harry Golden, and Taylor Caldwell. From the late Amy Bonner, also a poet, have come over 500 letters from English and American literary figures, including 11 letters from Robert Frost and 54 letters from Edgar Lee Masters.

"To what extent the materials in our rare book collection will attract scholars to Penn State only time will tell," says Mann. "We can't be all things to all kinds of scholars but in certain areas we have made a good start toward a collection of materials which can attract.

"Our limited funds prevent us from entering too heavily in the competition for rare books, but the collection is growing at the rate of about 400 volumes per year.

"Perhaps some day we can also afford the luxury of rare books for rare books' sake, but for the present we are satisfied to try to get — by purchase or gift — what the faculty and students can make use of."

Test equipment

A grant has been made to the University by the General Electric Co. which will make it possible for the department of mechanical engineering to install a control test panel in its new power transmission laboratory at a cost of only \$2,000, although the equipment is valued at \$10,282.

The company explains that this program of aiding educational institutions "provides one means for stretching their available funds to more nearly maintain their laboratories at the standards required for high quality instruction and related research."

The equipment consists of alternating and direct current control panels which will be designed in appearance to match the other equipment already specified for the laboratory.

Microscope given

The E. I. du Pont de Nemours and Co. of Wilmington, Del., has given a \$27,000 Cintel scanning microscope to the department of chemistry for instructional use.

Also known as a "flying spot particle resolver," the instrument will be of great value to students in chemical microscopy. It is a new type of electron microscope, providing automatic means of counting and sizing all kinds of particles. There are said to be only two other microscopes of the same type in the United States, one at Monsanto Chemical Co. and the other at Oak Ridge National Laboratories.

Robert G. Scott, an alumnus now employed in the Light and Electron Microscopy Section of du Pont's Experiment Station, made arrangements for the gift with Dr. Mary L. Willard, professor of chemistry.

To give papers abroad

Dr. David H. Rank, research professor of physics, has been invited to give two papers at the International Conference on Spectral Line Shape and Molecular Interactions Aug. 28-31 at the Weizmann Institute, Rehovoth, Israel, and will also give talks in England and Denmark while abroad.

Titles of the papers to be given at the Conference are "Shapes and Breadth of Molecular Band Lines" and "Pressure Shifting of Molecular Band Lines."

On September 8, Dr. Rank will give a lecture at the National Physical Laboratory, Teddington, England, on "Adventures in High Precision Infrared Spectroscopy."

He will also lecture at the University of Copenhagen, Denmark, early in September.

Personnel matters

Dr. Robert Enggass, associate professor of the history of art and architecture, plans to spend the next academic year in Europe while on leave to work on a book and do research on Baroque architecture in Naples, Italy. The book is on the 17th-century Italian artist, Giovanni Batista Gaulli, called "Baciccio." He has been engaged in research for the book for several years.

Alfred C. Mudrich, instructor in mathematics at the Altoona Campus, will resign Aug. 31 to accept a position at Wisconsin State College.

George K. Seacrist, assistant professor of English at the New Kensington Campus, has resigned to become a member of the Indiana State College faculty.

Dr. Carl S. Bittner, extension fruit specialist, has been named chairman of a new extension section embracing the entire horticultural field. He filled a temporary position as fruit specialist from 1930-32 and returned to the campus in 1947.

Robert G. Wingard, for the past nine years head of the extension wildlife program, has been named chairman of a new extension section which combines forestry and wildlife management.

Herbert C. Gilmore, associate professor of dairy science extension, has been granted a year's leave of absence to study for a master of science degree at the University of Massachusetts. He plans to do research in genetic and environmental aspects of protein and non-fat solids in milk.

Leonard N. Zimmerman, associate professor of bacteriology, will be on leave from Jan. 1 to June 30, 1962 to do research in bacterial genetics in the department of micro-biology at Yale University Medical School.

Recent additions to the faculty include:

Dr. Bill F. Kelso, graduate of Oklahoma State University with master's degree from Penn State and doctorate from the University of Missouri, has been appointed dairy extension specialist. At the University he did work in dairy nutrition and was a teaching assistant. He received his doctorate in June.

Leo Blumle, instructor in electrical engineering.

Donald Dougald, research assistant in agriculture, *soil & architecture*

I. Payne Reed, psychologist and instructor in psychology (Altoona).

Thomas Seliga, instructor in electrical engineering.

Senate Minutes

Annual Reports

Student Affairs Committee

A year ago, the Senate Committee on Student Affairs reported its concern about the educational impact of the non-classroom aspects of student affairs and activities. This year this concern has led us to continue the codification of University policies and procedures, to ascertain the willingness of national organizations with local chapters to make their constitutions available to the University and to prompt all student organizations to review their programs and their educational impact.

The Committee must report its pleasure that, at its suggestion, the Senate voted to eliminate the K rules relating to class attendance.

This year, the constitution and operations of the Student Government Association received lengthy consideration by the Committee. The Sub-Committee on Organizational Control contributed significantly to this consideration and continued its active interest in the plans students present for new organizations and for revising existing ones.

The Sub-Committee on Academic Honesty has examined many areas of student conduct and has presented helpful suggestions designed to improve student attitudes and behavior and to assure more consistent handling of detected dishonesty.

Throughout the year, the Committee has emphasized the educational impact of those areas of student life in which it has concern. The sole justification for involving faculty in student affairs stems from this concern and this has been and should be the guiding principle of the Committee's activities.

Monroe Newman, *Chairman*

Library Committee

This committee was appointed and approved by the Senate in February 1961. No charge has been given to this committee; however, it views itself as being concerned with library policy matters affecting education and research. The committee has reviewed the report of the Liberal Arts Committee on Library and Research and is re-

viewing the Long-Range Plan of the university library.

Due to a departmental request for establishment of a branch library, and as a part of our review of long-range plans for the university library, the general problem of establishment of branch libraries has been discussed in detail within the committee. In this connection, the following recommendation was adopted and will be a part of a set of recommendations made after completion of our review of the long-range plan for the university library:

At this stage of development of the university, it is recommended that the establishment of new branch libraries or re-organization of existing libraries, shall be on the basis of areas of scholarship and research rather than on the basis of departmental or college organization.

In other discussion, the majority of the committee is agreed that a strong central library should be our first objective and that any specialization, such as in the case of an undergraduate library, might well take the form of a wing on the main library. A wing devoted to the most-used references and course materials at the undergraduate level might reduce crowding and release space which could be devoted to strengthening the research and graduate instructional function of both the main library and existing branches.

In the interests of scholarship and increasing the number of opportunities for learning, the committee agreed that a reading room, supplied with basic references, should be easily accessible to every living unit on the campus, and, if possible, within the living units themselves.

The committee has held six meetings.

C. L. Hosler, *Chairman*

Committee on Military Instruction

1. The Committee assisted the Dean of Men's Office and the Registrar in the administration of the S-Rules;

2. Supported the Educational Policy Committee's report to the Senate on the desirability of continuing compulsory military instruction (Faculty Bulletin, November 11, 1960);

3. Proposed a revision of the S-Rules which was adopted by the Senate on January 5, 1961 (Faculty Bulletin, January 20, 1961).

J. G. Rayback, *Chairman*

CALENDAR

Friday, July 21

Concert by Claremont String Quartet, 8 p.m., HUB ballroom.

Mixed swim, 8-9:30 p.m., Glennland pool.

Meeting of Penn State Graduate Club in Art Education, 2 p.m. HUB Auditorium. Also Saturday, beginning at 8:45 a.m.

Saturday, July 22

Square Dance, 9-12, HUB ballroom.

Sunday, July 23

Chapel Service, 9 a.m., The Chapel. A. E. Diem, vice-president for business, on "First Things First."

Summer Sessions Band Concert, 7 p.m., The Mall, in front of Pattee Library. James W. Dunlop, conducting.

Monday, July 24

Student Sing, 8 p.m., Schwab Auditorium. Hummel Fishburn and Frank Gullo directing.

Duplicate bridge, 7 p.m., HUB card room.

Tuesday, July 25

Claremont String Quartet concert, 8 p.m., HUB ball room.

Mixed swimming, 8-9:30 p.m., Glennland pool.

Summer Science Institute, 4 p.m., Room 111 Boucke. Dr. Jessie Livingston, head of the department of botany and plant pathology.

Swimming for faculty women, 3:30 p.m., White Hall pool.

Wednesday, July 26

Outdoor Movie, 9 p.m., lawn south of HUB. Rec Hall in case of rain.

Chess Club, 7 p.m., HUB card room.

Thursday, July 27

BOC Student Recital, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dancing, 7:30 p.m., HUB ball room.

Mixed swimming, 8-9:30 p.m., Glennland pool.

Summer Science Institute, 4 p.m., Room 111 Boucke. Dr. Egbert Kipp, manager, research and development department, Sun Oil Co., on "Research in Industry."

Swimming for faculty women and wives, 3:30 p.m., White Hall pool.

Friday, July 28

Mixed swimming, 8-9:30 p.m., Glennland pool.

faculty BULLETIN

Vol. 49, No. 3

July 21, 1961

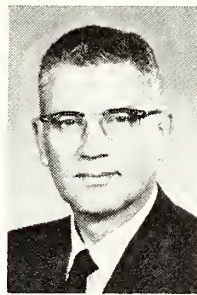
Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

Peace Corps faculty named

THE first contingent of 150 Peace Corps volunteers who will train for teaching service in the Philippines will begin a rigid program next week.



Dr. P. W. Bixby

Dr. Paul W. Bixby, assistant dean of the College of Education, is in charge of the program and Dr. George M. Guthrie, professor of psychology, is assistant director for evaluation research and Philippines studies.

The faculty for the intensive 60-hour per week, seven-week course will be largely from the University, including:

Dr. Clyde Corle, associate professor of education, on comparative education.

Dr. Milnor Alexander, assistant professor of political science, on American life and institutions.

Dr. Arthur L. Harnett, professor of physical education, on health and safety in the tropics.

Coming from the University of Nebraska to join the faculty as associate professor of education is Dr. Joseph Zaffaroni, who will direct the program on the teaching of science in the elementary schools.

Dr. Donald Lloyd, professor of English at Wayne State University, will direct the program of teaching English as a second language.

Seven elementary school teachers will also assist in the course by serving as study-discussion leaders for the professional courses and as an evaluation staff under Dr. Guthrie's direction. They include Mrs. Clemence Flenner, Mrs. Doris Baney, Kay Lang, and Mrs. Margaret Cronemiller from the College Area Schools; Mrs. Eva Shoemaker, of Huntingdon, Pa.; and Mrs. Queen Weaver, Tarboro, N. C.

Aiding Dr. Lloyd in the English program will be Dr. Charles Holt, who is to become assistant professor of English at Worcester Polytechnic Institute in September; Dr. Emy Pascasio, a native Filipino Girl who has recently obtained her doctorate in linguistics at the University of Michigan; and Dr. John Dalbor, assistant professor of Romance languages at Penn State who has had training in the teaching of English as a second language. Dr. Pascasio, incidentally,

wrote her dissertation on the particular difficulties in training those who speak Tagalog as a native tongue to learn English.

In the program headed by Dr. Alexander, four faculty members will aid during the first program: Dr. Jessie Bernard and Joseph F. Faulkner, both of sociology; Dr. Ari Hoogenboom, history; and Dr. Marvin Rozen, economics.

Special lecturers will be available also during the program. In August, Dr. Fred R. Eggan, noted anthropologist and head of the Philippines program at the University of Chicago, will give four lectures. Dr. Frederick Wernstedt, associate professor of geography, who has made special studies related to the economic geography of the Islands, is also scheduled for lectures.

The volunteers constitute the first group which will be trained at Penn State. They are expected to assist, not replace, Filipino teachers of English and general science.

Included in the program will be the following subjects:

1. Comparative Philippine Culture and education — three 75-minute lecture periods per week and three study-discussion periods.

2. Seminar on Teaching, with Emphasis on Science — three lecture and three study-discussions periods per week.

3. Teaching of English as a Second Language — three periods per week.

4. American Life and Institutions — three periods per week.

5. Health and Physical Education — three periods per week plus a scheduled recreation-conditioning hour each day.

6. Peace Corps Orientation — one period per week.

Dr. Bixby outlines the goals of the program as viewed by the University as follows:

- a. The volunteer should be challenged to look beyond his Peace Corps assignment to further use he can make of his developing skills as a teacher.

- b. They should be educated to recognize and respect the motives of their Filipino cooperating teachers.

- c. Competent Filipino teachers should be invited to join the training staff and as much as possible of Penn State's training and evaluation responsibilities overseas should be delegated to Filipino educators.

- d. Comparative study of Filipino
(Continued on page three)

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Three concerts

Concerts by the band, orchestra, and chorus of the Band, Orchestra, and Chorus School will present concerts next week.

Directed by Theodore Karhan, professor of music, the orchestra will perform works by Vaughn Williams, Weinberger, Geminiani, and a "Swedish Melody for orchestra and piano," arranger by Karhan. The program is scheduled for Tuesday, Aug. 1 at 8:30 p.m. in Schwab.

Dr. W. Paul Campbell, associate professor of music education, will direct the chorus in its program in Schwab at 8:30 p.m. on Wednesday, Aug. 2.

The Chorus program will consist of two Bach chorales, "Break Forth, O Beauteous Heavenly Light" and "Now Let Every Tongue Adore Thee;" Haydn's "The Heavens Are Telling;" Mozart's "Sanctus and Hosanna;" Rachmaninoff's "Blessing and Glory;" O'Hara's "One World;" Morgan's "Ours Is The World;" a group of spirituals; a group of folk songs; Bernstein's "Tonight;" Noble Cain's "Homeland;" Steele's "America Our Heritage;" and Irving Berlin's "Give Me Your Tired, Your Poor."

On Thursday, Aug. 3, the Band will present a concert under the direction of James W. Dunlop, professor of music education, at 8:30 p.m. in Schwab. Included will be selections by George Kenny, Frank Erickson, Joseph Catizone, Rimsky-Korsakov (Procession of Nobles), Clare Grundman, Keith Crosby Brown; Richard Rodgers (The Sound of Music) and John Philip Sousa. There will be two selections by the BOC Dance Band.

NEWS IN BRIEF

► **NAMES:** Fourteen units of the new turf plot residence halls will be given names of Pennsylvania counties in ceremonies this fall.

Over the past two years the program of naming residence hall units for counties, with appropriate ceremonies in each case, has met with warm approval from county organizations. Thirty units have been named to date.

Counties to be honored this year include: Armstrong, Oct. 3; Bradford, Oct. 10; Crawford, Oct. 19; Lawrence, Oct. 25; Elk, Oct. 26; McKean, Oct. 31; Somerset, Nov. 1; Venango, Nov. 2; Indiana, Nov. 9; Jefferson, Nov. 14; and Franklin, Nov. 15.

► **UNDERWATER.** A nine-nation NATO institute on underwater acoustics, directed by Dr. Vernon M. Albers, chief scientist of the Ordnance Research Laboratory, begins Monday in London, England.

The institute brings together scientists from the NATO countries to trade views on the present status of underwater acoustics and to suggest the direction of future research in this field.

The institute is being held at the Imperial College of Science and Technology, University of London.

Dr. Eugen J. Skudrzyk and Dr. Paul M. Kendig, professors of engineering research, will lecture at the institute. Other lecturers will include representatives of Canada, the United Kingdom, Norway, Sweden, Denmark, West Germany, France, and Italy.

► **RECORD:** Penstate Reflection Josie May, one of the University's Holstein cows, has set a record of butterfat production. Her official 18,595 pounds of milk and 797 pounds of butterfat, achieved in a 365-day period, established a new high in Pennsylvania for junior two-year-olds milked twice daily.

► **SCHOLARSHIPS:** Sixty tuition-paid scholarships in meteorology are available through a National Science Foundation grant. The program will be offered to junior and senior high school teachers of biology, chemistry, mathematics, physics, and general science in the Philadelphia area through the Abington office of the Continuing Education Service.

The course will be given in 20 sessions and will include fundamentals of modern meteorology; selected topics of meteorological optics, acoustics and electricity, weather instruments, etc.

In 1960 courses in geology were

conducted with the aid of an NSF grant and this spring a second course in geology was given.

► **FOOD:** The third annual educational conference on The Institution Food Research and Services program, which is directed by Clarice G. Taylor, professor of hotel and institution administration, was held this week at Kutztown State College.

The program, aimed at improving food services in hospitals, schools, and colleges, is co-sponsored by the State Departments of Health, Justice, Labor and Industry, Military Affairs, Property and Supplies, Public Instruction, and Public Welfare. These departments, as well as federal agencies, the food industry, and the University were represented at the conference.

In addition to Mrs. Taylor, other Penn State representatives included Dorothy Houghton, associate dean for resident education; S. Earl Thompson, head of the department of hotel and institution administration; Dr. John H. Ferguson, professor of political science and public administration; and Katherine H. Fisher and Margaret B. Jennings, associate professors of foods and nutrition.

► **VISITOR:** Kenneth L. Holderman, coordinator of the Commonwealth Campuses, was a member of the Board of Visitors which this week evaluated the U.S. Army Signal Corps' training program at Fort Monmouth, N. J.

Other members of the Board were Dr. Elmer C. Easton, dean of engineering at Rutgers University; George E. Bruggeman, organization and training engineer for American Telephone and Telegraph Co.; Dr. Arthur Brownell, president, Worcester Polytechnic Institute; and Maj. Gen. (ret.) W. Preston Corderman, former Commanding General of Fort Monmouth.

► **GRADES:** Instructions for reporting of grades for the Summer Term were provided this week by the Dean of Admissions and Registrar, summarized as follows:

1. Grades for all students, including graduate students, who are to receive degrees at August commencement must be reported to the Registrar's office, Room 4, Willard, not later than 1 p.m. Friday, Aug. 25.

2. Grades for all other students must be reported not later than 48 hours after the final exam or in the case of research grades not later than 9:55 p.m., Saturday, Aug. 26.

Personnel matters

Francena L. Nolan, formerly associate professor of rural sociology, has been appointed director of the Division of Home Economics at West Virginia University and also assistant dean of the College of Agriculture, Forestry, and Home Economics.

James H. Eakin, Jr., extension agronomist, has been named chairman of agronomy extension, succeeding Frank G. Baner, who retired in June. Eakin has been a member of the faculty since 1949.

Arthur Hungerford, former executive director of the Educational Television Association and currently director of the television studio at New York University, has been appointed assistant professor of speech, effective Sept. 1. He will teach courses in radio and television and also work with the Division of Academic Research and Services. He holds a bachelor of science degree from M.I.T. and master of arts in education from New York University.

Kim B. Rotzoll, a 1957 honor graduate in journalism and currently television and radio account executive with the national advertising agency of Ketchum, MacLeod and Grove Inc., has been named instructor in journalism.

Other appointments announced recently include those of the following:

Dennis Cimino, instructor in chemistry at Hazleton.

Larry Degelman, research assistant in architecture.

Irvin Gottlieb, lecturer in chemistry, Ogontz

Donald Grubbs, instructor in bacteriology.

Wilbert Hobbs, instructor in engineering graphics.

Halsey House, research assistant in chemical engineering.

Charles Hurst, instructor in mechanical engineering.

Richard Ingram, research assistant, Ordnance Research Lab.

Barbara Lieb, instructor in speech.

J. Robert Snyder, associate professor in chemical engineering.

Commencement

About 900 undergraduates and graduate students are expected to be granted degrees at Commencement Exercises on Saturday, August 26. The ceremonies will be held in Recreation Building at 10:30 a.m.

This will be the first commencement under the new four-term system. Exercises are planned for each term during the year but no dates have been set for the fall, winter, and spring terms as yet.

New grants listed

Among new grants for research by faculty members announced recently are the following:

From Nuclear Utility Services, Inc., Washington, D. C., \$3,319 to Dr. Anthony Foderara, for six month-period, supporting studies of gamma-ray skyshine from shadow-shielded reactor containment vessels.

From the National Science Foundation, \$18,900 to Dr. Kenneth R. Beittel for one-year study to explore new methods of finding, measuring, and developing creativity in students.

From the Norwich Pharmacal Co., Norwich, N. Y., \$1,500 gift to Dr. Robert F. Gentry to help support research on mycotic diseases in poultry.

From the U.S. Army Research Office, a \$16,000 grant to Dr. Joseph Marin for a one-year period to study the mechanics of creep and the impact properties of plastics.

From the Vesuvius Crucible Co., Pittsburgh, a \$700 grant to Dr. W. O. Williamson, to provide equipment and materials to be used in studies of the rheology of clays or clay graphite mixtures.

From the Department of Health, Education, and Welfare, a \$15,000 grant to Dr. I. Clarence Hisatsune, for research on certain oxides of nitrogen known to be damaging to the human body.

Mateer comedy

Mateer Playhouse will offer the comedy by Joseph Fields and Peter De Vries, "The Tunnel of Love," beginning July 31 and closing Aug. 5.

The story concerns the efforts of Augie and Isolde Poole, who have been childless for five years, to adopt a child. Complications arise from the neighbors, the adoption agency, and other factors.

Gerald Richards and Diana Frothingham play the lead roles, with Will Gregory and Patricia Maguire as the neighbors. Rosemary Jackson and Marsha Salvatore, summer students, complete the cast.

Tickets are available at the Playhouse or at the theatre arts department, Schwab Auditorium, UN 5-7586.

Equipment

A \$73,250 grant has been made by the U. S. Air Force Office of Scientific Research for the purchase of equipment needed in materials research projects sponsored by the U. S. Department of Defense.

Dr. E. F. Osborn, vice-president for research, is administrator of the funds, which are provided because the usual

research contracts from the Defense Department do not provide for elaborate equipment.

Among the equipment purchased under the grant are:

1. A Norelco X-Ray Diffraction Unit, to be used in the Crystal Structure Laboratory, directed by Dr. Raymond Pepinsky, research professor of physics. It will also be used in the Groth Institute.

2. Partial cost of an Electron Microprobe Analyzer, to be used in research projects of Dr. Rustum Roy, professor of geochemistry.

3. A high vacuum pumping station, for use in the field emission research laboratory of Dr. Erwin W. Mueller, research professor of physics.

4. An electric counter and a time-interval unit, to be used by Dr. Walter Goldberg, assistant professor of physics, in experiments related to nuclear spin systems.

International

Visitors are welcome to attend the annual International Night of the Cosmopolitan Club Friday, August 4, at 8 p.m. in the HUB ball room.

International Night features a program of songs and dances of each of the countries represented in the Club — about 50 this year — and the colorful dress native to the countries. The program will last about 90 minutes.

The Cosmopolitan Club is an organization of students and faculty members of foreign countries. Advisers to the Club are Dr. Vaclav Mares and Dr. Kent Forster. President of the Club is Farcuk Fawzi, United Arab Republic; vice presidents are Mrs. Vladimir Stubican, Yugoslavia, and Amitava Mookerjee, India; treasurer, Mrs. A. M. Taylor, New Zealand; and Martha Morrow, secretary.

Molecule trap

Dr. I. C. Hitsatune, assistant professor of chemistry, has received a \$15,000 grant from the National Science Foundation to support a research project titled, Trapping of Unstable Chemical Species in Ionic Matrices."

Attempts will be made to trap molecules which cannot be studied by usual methods because of their instability. Very low temperature, produced by liquid helium, is one technique used to trap such molecules but Dr. Hitsatune hopes to find others which can be stabilized at room temperature by spectroscopic methods.

After molecules are trapped, their absorption of infrared radiation will be measured and a deduction made as to what atoms the molecule contains and the arrangement of the atoms.

Peace Corps—

(Continued from page one)

and American schools, including teaching methodology, should be the major area of emphasis.

e. A course in Teaching English as a Second Language should be required of all teacher aides and Methods of Teaching Science should be emphasized in the Teaching Seminar.

f. A course in American Studies is needed, orientated for overseas Americans.

g. Health instruction should be directed to provide useful information about the tropics in general and the Philippines in particular.

The faculty is generally no stranger to the Philippines. Dr. Bixby taught in the College of Education at the University of Philippines, Quezon City, while on leave in 1955-56. Dr. Guthrie served as a research scholar in psychology at Philippine Normal College in Manila under a Fulbright grant in 1959-60. Dr. Corle was on the faculty of the University of the Philippines during 1960-61, as a Fulbright lecturer.

In all, some 300 volunteers are expected to be trained at Penn State by June 30, 1962. The group now starting training will arrive in the Islands in October. The volunteers will be placed in teams of four and will be assigned to a provincial location where a grouping of barrio schools makes a broad area of service possible.

SENATE MINUTES

Annual Report

Senate Research Policy Committee

The Research Policy Committee of the Senate held three meetings during the academic year and discussed a number of items relating to encouragement and promotion of research in the University.

We submitted one report to the Senate, supporting the recommendations of the Educational Policy Committee regarding the Library. Prof. H. Curry of the Committee prepared a report on Evaluation of Research. This report was accepted by the Committee and submitted to Dean Osborn for distribution to the Deans and Department Heads of the University.

Prof. Dunne prepared a report on University Shop Facilities and it was expected that upon approval by the members of the Research Policy Committee, this report would be submitted this Fall to the Senate as an informal report.

Joseph Marin, *Chairman*

SENATE MEETING

There will be a meeting of the University Senate Tuesday, August 1, at 3:55 p.m. in room 121 Sparks. Please note the new time and also the fact that the meeting is on Tuesday, rather than Thursday, as in the past.

Items of interest

Articles and Papers

BARTLETT, H. D., agricultural engineering, with W. B. Crawford, a paper on "Electrical Sequencing and Indexing of an Egg Packing Machine," at the annual meeting of the American Society of Agricultural Engineers.

BROWN, I. V., American history, a article "William D. Kelley and Radical Reconstruction," in the July issue of the Pennsylvania Magazine of History and Biography.

BROWN, J. L., Jr., Ordnance Research Lab, "Note on Complete Sequences of Integers" in the June-July issue of American Mathematical Monthly.

CORTER, LEE, political science, a paper on "Purpose, Scope, Organization, and Techniques of Municipal Public Relations" at the World Conference on Local Government at Washington, D. C.

DAVISON, H. M., education research, lead article titled, "Budget and School Public Relations" in the Bulletin of the Penna. State School Directors Assn., June issue.

MILLER, E. W., geography, an article, "Changing Patterns in the Mineral Economy of the United States, 1939-1954" in the May issue of Professional Geographer.

MOHSENIN, N. N., agricultural engineering, with J. D. Hovanesian and E. E. Finney, a paper on "Thermal Efficiency of Conduction Drying of Shelled Corn and Effects of Temperature and Kernel Injury on Drying Rate," at the annual meeting of the American Society of Agricultural Engineers, June 25-28 at Ames, Iowa.

— with Goehlich, Horst, agricultural engineering, a paper on "Techniques for Determination of Mechanical Properties of Fruits and Vegetables as Related to Design and Development of Harvesting and Processing Machinery," at the annual meeting of the American Society of Agricultural Engineers.

— a paper on "Agricultural Engineering Education and its Relations to Economic Developments in Underdeveloped Countries," at the annual meeting of the American Society for Engineering Education.

PANOFKY, H. A., meteorology, an article on "Temperature and Wind in the lower Stratosphere," Vol. 7, "Advances in Geophysics."

PRYBYLA, JAN S., economics, "Expectations in Latin America: Looking to the U.S.A.," in the British periodical, "The Tablet," June 3.

— an article, "A Better Outlook for the U. S. Economy," in the May 4 issue of Capital — The Indian Financial Review, Calcutta, India.

STAHL, C. D. AND NIELSEN, R. F., petroleum and natural gas engineering, with Templeton, E. E., a paper on "A Study of Gravity Counterflow Segregation," to be presented at the 36th annual fall meeting of the Society of Petroleum Engineers, Oct. 8-11, in Dallas, Texas.

Lectures and Talks

DILLER, N. R., management training, visiting lecturer at the Puerto Rico YMCA, and to assist in founding of industrial management clubs on the island this summer.

RANK, D. H., physics, a talk on "Infrared Absorption Standards" to Commission 14 of the International Astronomical Union at Berkeley, Calif., Aug. 19.

WASHKO, J. B., agronomy, a talk on "Why Quality Forage Pays Off" at the Wardensville (W. Va.) Livestock and Agronomy Field Day, June 16.

— a talk on "Management Practices for Birdfoot Trefoil," June 19 at the meeting of the Northeastern Branch of the American Society of Agronomy and the Canadian Society of Agronomy.

Elected and Appointed

ALBRIGHT, G. H., architectural engineering, appointed chairman of the Architectural Engineering Division of the American Society for Engineering Education.

ISENBERG, M. W., architectural engineering, appointed representative of the Architectural Engineering Division to the General Council of the American Society for Engineering Education.

KRAUSS, F. B., Romance languages, elected for a six-year term to the Council of the American Classical League.

MOURANT, J. A., philosophy, elected to membership in the Societe Internationale pour L'Etude de La Philosophie Medievale, of Louvain, Belgium.

STAHL, C. D., petroleum and natural gas engineering, appointed to the Technical Advisory Committee, Industry-Bureau of Mines Well Coring-Reservoir Appraisal Project.

CALENDAR

Saturday, July 29

Square dance, 9-12, HUB ballroom.

Sunday, July 30

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. John M. Currie, chaplain, Lafayette College, on "Words and Music of Faith."

Monday, July 31

Mateer Playhouse production of "The Tunnel of Love," 8:30 p.m. (concludes Aug. 5), at Standing Stone.

Duplicate bridge, 7 p.m., HUB card room.

Tuesday, Aug. 1

Summer Science Institute, 4 p.m., Room 111 Boucke. Dr. George N. Raney, assistant professor of mathematics, on "New Approach to Mathematics."

Mixed swimming, 8-9:30 p.m., Glennland Pool.

Faculty women swimming, 3:30 p.m., White Hall pool.

BOC orchestra concert, 8:30 p.m., Schwab Auditorium.

Meeting of University Senate, 3:55 p.m., Room 121 Sparks.

Wednesday, Aug. 2

Outdoor movie, "Man in the Shadow," 9 p.m., lawn south of HUB (Rec Hall in case of rain).

Chess Club, 7 p.m., HUB card room.

BOC Chorus concert, 8:30 p.m., Schwab Auditorium.

Thursday, Aug. 3

BOC Band concert, 8:30 p.m., Schwab Auditorium.

Interlandia folk dancing, 7:30 p.m., Ice Rink Pavilion.

Mixed swimming, 8-9:30 p.m., Glennland Pool.

Friday, Aug. 4

Cosmopolitan Club International Night, dancing and folk songs of Latin American countries, HUB ballroom, 8 p.m.

Mixed swim, 8-9:30 p.m. Glennland pool.

Saturday, Aug. 5

Square dance, 9-12, HUB ballroom.

faculty BULLETIN

Vol. 49, No. 4

July 28, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

Tuition increase announced

THE UNIVERSITY today announced a tuition increase, effective in the Fall, of \$15-a-term, boosting the present figure from \$160 to \$175 for Pennsylvanians. Non-Pennsylvanians will pay \$350-a-term.

President Walker said inadequate help from the State, coupled with rising costs, necessitated the tuition boost.

He also announced "a nominal increase" in room and board charges, effective in the Fall.

The tuition boost will yield an estimated \$1-million which President Walker said he would use largely "to maintain our competitive position in recruiting and retaining faculty members."

Room and board charges, which heretofore have varied slightly for men and women, will be standardized under the new schedule.

Single room accommodations with counseling and food service for a ten-week term hereafter will cost \$280 as compared with present charges of \$268 for men and \$274 for women. A like advance is reflected in the new double room charge of \$265 per term.

The new tuition and room-and-board schedules were disclosed in a letter to the parents of all students under date of August 4.

In the same letter, the University announced its approval of an "assured education plan" which will enable parents of undergraduate and gradu-

ate students to borrow educational funds from a private banking institution and repay them on a monthly basis.

The latter is designed to ease the financial load for families now unable to pay college expenses in a lump sum.

Today's announcement was forecast in an earlier letter to parents which said that a tuition boost would become unavoidable if the Commonwealth did not provide an additional six million dollars in its 1961-62 appropriation.

The General Assembly presently has under consideration an educational bill which would add one and one-half million dollars to the University's impending appropriation of \$17,193,-865.

The extra money depends on approval of new tax legislation, and would still leave the institution \$4½ million short of its announced needs for the current fiscal year.

President Walker said he had hoped to avoid the tuition increase but was faced with "the hard fact that competition for faculty and rising costs make it increasingly difficult for the University to match income and outgo."

News in Brief

➤ **PETROGRAPHY:** Dr. William Spackman, associate professor of paleobotany, has received a grant of \$16,932 from the U. S. Steel Corporation for a study of the petrography of Southern Appalachian Coking Coals. Prediction of the coking qualities of a specific coal is sought from microscopic studies and an understanding of the basic composition of coal is hoped for.

➤ **MICROSCOPY:** Dr. Mary L. Willard, professor of chemistry, will address the members of the 1961 Summer Science Institute, Tuesday, Aug. 8, at 4 p.m. in Room 111 Boucke. She will speak on "Chemical Microscopy."

➤ **INITIATION:** The summer initiation of Phi Delta Kappa, national education honorary society, will be held Wednesday, Aug. 9, at 5 p.m. in the Home Economics Auditorium. A banquet will follow at 6:30 p.m. in dining

rooms A and B of the Hetzel Union Building.

➤ **CONTRIBUTIONS:** A total of \$208,477.81 was contributed by alumni and former students to the 1961 Alumni Fund, J. E. Holtzinger, chairman of the Fund, reported this week.

Gifts came from 11,637 alumni, second only to the 12,134 who contributed during the 1955 Centennial Year drive. Last year's total of \$242,-797.43 is high.

➤ **SCHOLARSHIPS:** Mrs. Philip Handmaker, of Pittsburgh, has established four scholarships of \$300 each which will be available to students enrolling as freshmen at any of the campuses. The scholarships honor her late husband, Philip Handmaker.

➤ **ICELAND:** A collection of the literature of Iceland, provided by Michael Bell, of State College, is currently on display in the foyer of Pattee Library. About 150 books, pamphlets, magazines, and newspapers are

(Continued on page three)

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Personnel matters

Arthur T. Thompson, associate director of the Ordnance Research Laboratory, has been named associate dean of the College of Engineering and Architecture, succeeding Albert H. Jacobson, Jr., who resigned the post in February. Thompson has degrees of bachelor of arts in mathematics from Colby College, bachelor of science in electrical engineering and master of science from Penn State, master of science from Harvard University, and master of business administration from the University of Chicago. He joined the faculty in 1945, and has been associate director of the Laboratory since 1957.

William F. Christoffers, director of the Division of Accounting Methods, has been named deputy controller, a new position approved at the meeting of the Trustees last week. He will have full authority to act on behalf of the controller under his direction.

Recent appointments to the faculty include the following:

Dr. Earl E. Edgar, head of the department of general studies at Kansas State University, as professor of education.

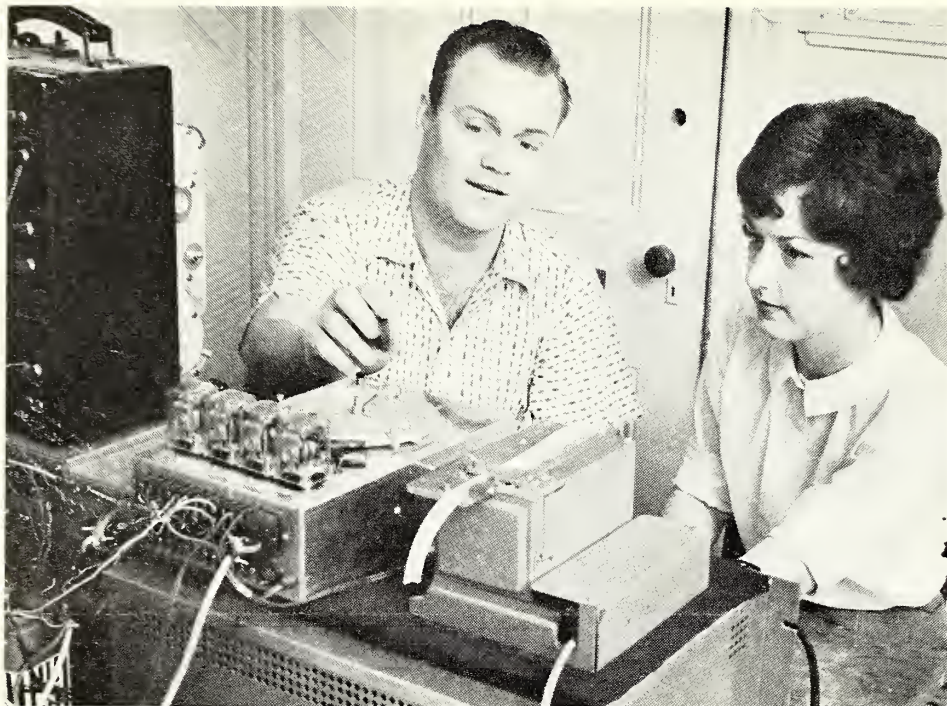
Rodney T. Houlihan, assistant professor of zoology.

Wilma Lehman, assistant professor of zoology.

Galen A. Motter, Jr., instructor in Agronomy, Pasture Research Laboratory.

Ned Shilling, assistant director, Bureau of Business Research and lecturer in business statistics.

Charles Strauss, instructor in forestry extension.



Dr. William F. Prokasy, associate professor of psychology, briefs Mary Ann Lloyd, junior in psychology, as she monitors stimulus-control and data-recording apparatus. Miss Lloyd is a junior colleague in an NSF undergraduate research participation program.

NSF Apprentices

Undergrads taste research

OUTSTANDING undergraduates are being given graduate-level research training at the University under a new "apprentice" system devised and supported by the National Science Foundation.

Four promising students are now actively engaged in graduate research in psychology, with the status of semi-professional junior colleagues. Four others have served "apprenticeships" of varying duration in the past year, three in psychology and one in ceramic technology.

The system is called Undergraduate Research Participation, a section of the Undergraduate Science Education program of N. S. F. It is designed "to provide special opportunities for scholarly development" to promising undergraduates.

Such students, the Foundation points out, "may be ready for studies of a level and variety not regularly offered in routine undergraduate courses." The new system is intended to afford these students "direct contact with research and research scientists," to develop in them "the ability to employ effective investigative procedures," in order to narrow "the gap between the study of science and scientific research."

The U. R. P. program allows selected students to replace term-time or

summer jobs with participation in on-going research. Stipend holders receive an average of \$150 per academic year for eight to ten hours per week of research participation, \$600 for a summer of full-time participation, or both.

Departments may apply for project equipment and operational costs, research supervisors' salaries, travel funds for field work, and support for preliminary staff surveys of projects.

Proposals are submitted by departments, except for interdisciplinary projects requiring the participation of more than one department. N. S. F. support may be requested for periods up to three years.

The next deadline for receipt of proposals is September 15, for programs beginning in the summer of 1962. Proposals for programs beginning in the first half of the 1962-63 academic year must be received by January 15, 1962; for the second half-year, by June 15, 1962.

Since 1959, the Foundation has distributed about 500 grants among 250

colleges, an expenditure of more than \$3 million. Approximately 4,300 undergraduates will be in the program this summer and in the coming academic year. The fields of chemistry, physics, engineering, and biology hold 88% of the grants.

Seven of the eight U. R. P. stipends placed at the disposal of the University were awarded to Dr. William F. Prokasy, assistant professor of psychology. Two of the undergraduates chosen for the program worked or are working under his direction, and the others under Dr. John F. Hall, professor of psychology; and Dr. Howard S. Hoffman and Dr. Douglas N. Jackson, assistant professors.

Another research "apprentice," Sari Kurtossy, daughter of a former designer in engineering research, collaborated in important X-ray clay analysis with Dr. George W. Brindley, professor of solid state technology and head of the department of ceramic technology.

"We have the kinds of research programs," says Dr. Howard A. Cutler, administrative assistant to the president for academic affairs, "which fit in well with this N. S. F. program, to challenge the students in a way that their usual laboratory courses cannot. It is research at the frontier."

Faculty research scientists supervising U. R. P. students concur in Cutler's estimation of the values of the program. "Attacking problems for large university,"

which we don't know the answers makes the work exciting," Dr. Hoffman says. "There's a big difference between student lab experiments and on-going research which is making a contribution to the literature of a science."

Apprentice systems

"The students feel that the work they're doing is reasonably important," Dr. Prokasy adds. "This results in an individual tension, develops their enthusiasm, and advances them intellectually."

There was general agreement with Drs. Hoffman and Prokasy that the "apprentice system" is the ideal introduction to research — "to get into a laboratory with people who are doing research," in Dr. Hoffman's words. "Research should be learned like a trade, through apprenticeship."

"This is the only way to learn research," Dr. Prokasy asserts. "There's no question but that 'osmosis' is the best method."

Dr. Hall finds the program "a very effective antidote to the impersonality

(Continued on page four)

Items of interest

Elected and Appointed

- ALBRIGHT, G. H., architecture, appointed chairman, 1961-62 Planning Committee on Design of Buildings for the Nuclear Age, Building Research Institute.
- MINDER, T. L., Engineering librarian, named chairman of a committee of the Engineering Library Section, A.S.E.E., to study library practices in engineering.
- named chairman of a similar committee of the Special Libraries Association.
- named program chairman of the library section, A.S.E.E., for the Society's 70th meeting next June at Colorado Springs.
- PYLE, H. G., Continuing Education, appointed to a three-year term on the executive committee of the Adult Education Association.

Articles and Papers

- ADDISON ARNOLD, Ordnance Research Lab, a paper, "A Method of Evaluation of Engineers and Scientists" at the Western Electronics Show and Convention in San Francisco, Aug. 22.
- CORSO, J. F., psychology, an article in the June issue of the American Journal of Psychology, on "The Quantal Hypothesis and the Threshold of Audibility."
- DRAPER, A. B., industrial engineering, papers titled "The Use of Glass Beads as a Model for Studying the Properties of Sand Compacts," and "The Tube Wall Effect on the Properties of Standard Sand Specimens."
- JORDAN JOSEPH, chemistry, papers at the 18th annual International Congress of Pure and Applied Chemistry at Montreal Aug. 6 to 12 on "Thermochemistry of Precipitation Processes and 'Liquid Structure' in Molten Nitrates" and on "Identification of Active Electrode Sites by Contact Autodiagraphy."
- MARKHAM, J. W., journalism, the results of survey of seven leading independent newspapers of South America, in the Summer issue of Public Opinion Quarterly.
- an article in the July issue of Nieman Report, on "Are We the Best Informed Nation?"
- MUAN ARNULF, metallurgy, a paper on manganese oxides at the 18th International Congress of Pure and Applied Chemistry.
- MUELLER, E. W., physics, a paper titled "Direct Observation of Particle Impact Phenomena" at the summer meeting of the American Physical Society in Mexico City.
- a paper, "The Initial Stages of Corrosion on an Atomic Scale," at the Gordon Research Conference on Corrosion at Colby Junior College, New Hampshire.
- PROFFITT, R. C., food service, a paper on "Automatic Vending" at the annual meetings of the Association of College and University Housing Officers at Columbia University.
- PRYBYLA, J. S., economics, an article on Soviet statistical procedures in the July 23 issue of the Washington Post.
- READ, H. J., metallurgy, a paper on the mechanical properties of electrodeposited metals and alloys at the Gordon Conference on Electrodeposition at the Tilton School, Tilton, N. H.

Lectures and Talks

- KAUFMAN, J. J., economics, a talk before the Advanced Management Institute for the Bureau of Employment Security on the manpower changes in the 'fifties and 'sixties.
- PELTON, W. C., security, a talk before the Altoona Rotary Club, Aug. 8, on "North of Saigon."

Miller at Mateer

"A View from the Bridge," Arthur Miller's powerful drama of the Brooklyn waterfront, will open a two-week run at Mateer Playhouse August 7.

The play was originally a long one-act production which Miller rewrote and which has been popular in London and Paris. It tells the story of Eddie Carbone, a longshoreman, and the jealousy and passions in his life.

Will Gregory, who had the lead role in "Epitaph for George Dillon" at the Playhouse, will be Eddie, Patricia Maguire his wife, Gerald Richards as the lawyer, Mark Rhudy as Marco, James Brooks as the young friend, and Patricia Berry as Eddie's niece. Others in the cast will be Ed Anderson, Michael Goff, Richard Bagwell, Jo Marion, Delmar D. Hendricks, and members of the summer acting class.

Tickets are available at Mateer Playhouse or at the theatre arts department, UN 5-7586. Curtain time is 8:30.

Laundry help

Two private hospitals have been added to the growing list of institutions seeking the help of Dr. Joseph Krawiec, associate professor of clothing and textiles research, in solving their laundry problems.

Chestnut Hill Hospital in Philadelphia and Charleroi-Monessen Hospital in Charleroi, have complete contracts with the University for help in cutting laundry costs.

Dr. Krawiec has been providing the service of testing various fabrics for durability and detergents and soaps for efficiency for 25 years. Sixty-six State institutions are currently being aided.

Fellowships available

About 65 National Science Foundation Postdoctoral Fellowships will be awarded Oct. 16, 1961 for full-time scientific study and/or research at the postdoctoral level for periods of six months to two years in the following areas: biological, engineering, mathematical, medical and physical sciences, anthropology, economics, geography, history and philosophy of science, psychology (excluding clinical), and sociology, (excluding social work). Interdisciplinary fields such as geochemistry, meteorology, and oceanography are included also.

The annual stipend is \$5,000 plus an allowance of \$500 for each dependent, and a limited cost of travel and research expense allowance.

The application deadline is Sept. 5, 1961. The Graduate School Office, 101 Willard, has cards to use in obtaining application materials. The cards must be submitted to The Fellowship Office, National Academy of Sciences-National Research Council, Washington 25, D. C.

Psychology research

Recent developments in experimental psychology are available to psychology teachers from six liberal arts colleges through a special research participation program, aided by a \$16,950 grant from the National Science Foundation.

Dr. William M. Lepley, director of the Psychology Laboratories, is directing the project, which is designed to encourage research in undergraduate liberal arts colleges by giving the teachers research opportunities at larger universities with extensive facilities.

Teachers currently participating are from Austin College, Texas; Allegheny College, Meadville, Pa.; Mt. San Antonio Junior College, California; Lafayette College, Easton, Pa.; Kenyon College, Ohio; and Wells College, New York.

Similar programs are in progress at Indiana University, State University of Iowa, University of Michigan, and University of Florida.

News —

(Continued from page one)

exhibited, featuring works of Halldor Laxness, 1955 winner of the Nobel Prize for literature.

► **INTERESTS:** An analysis of about 1,000 speeches given by students in speech courses last year indicates that nearly 56 per cent of the students spoke on social subjects, political science 17 per cent, and education 12 per cent. Science and technology were virtually neglected.

► **DIED:** Dr. Carl P. Schott, dean of the School of Physical Education and Athletics from 1937 to 1952, died in California July 24. His wife, Ivy, died on June 30. Dean Schott came to Penn State from West Virginia University and had previously taught at Pomona College, Claremont, Calif., Western State Teachers College, Michigan, and Platteville, Wis., State Teachers College.

► **EQUIPMENT:** Valued at \$400, various pieces of equipment given by the Bell Telephone Laboratories are being distributed to several departments in the College of Engineering and Architecture.

► **TELEVISION:** Dr. John R. Rackley, dean of the College of Education, has been named to an 11-man advisory board for the American government course on NBC-TV's "Continental Classroom" program. The course will be taught by Dr. Peter H. Odegard, professor of political science at the University of California.

Undergrads —

(Continued from page two)

of faculty-student relationships — at least with a limited number of individuals, and these are the ones who will benefit most from a close relationship. This is difficult to come by in a

"It is an economic way, in terms of both times and commitments, to decide about continuing into graduate research," Dr. Jackson points out. "These students learn skills and techniques which they wouldn't ordinarily learn before graduate school," he adds, observing that many students enter graduate school without clear convictions, strong interest in their fields, or sufficient backgrounds, and that some are held back by supplementary undergraduate - level work in allied basic disciplines, the need for which they first discover in graduate research.

Students approve

Independent echoes of these feelings come from the students in the program. "It's fascinating to think that you may be able to prove or disprove some theory," declares Mary Ann Lloyd, a junior from Wilmington, Del., now working with Dr. Prokasy in his classical conditioning experiments.

"We have more time for the really new and inventive work under this system," says Paul Abplanalp, senior in psychology from Ridgway and a co-investigator in Dr. Hoffman's "pigeon project."

One student gave credit to the program for her decision on a career *outside* the field of research. Pat Lyons, psychology senior from Ivyland, decided during her year-long experience

in U. R. P. that her personal inclinations pointed to her a career in rehabilitation — "I'd rather work with people. I'd want to be out putting those theories into practice."

Students emphasized other values of working closely with faculty scientists in on-going research at the frontiers of their fields. Their comments defined a general pattern, some supporting Cutler's comment that "motivation is the chief desideratum" in the program.

The students cited not only increased competence and confidence, but intensified interest and enthusiasm, stimulating contact with well-trained scientific minds, broader comprehension of the demands and rewards of research, and a greater seriousness and decisiveness about careers. All but one are bent on careers in research in their fields, though most had been undecided before the opportunity arose to participate in research. In addition, they all declared an increased respect for the patience, dedication, and industry of the researchers around them.

Faculty supervisors are equally enthusiastic about their student associates.

"They are just as eager and dedicated as graduate students — often even more so," says Dr. Hall.

In Dr. Prokasy's opinion, they are sometimes so eager, in fact, that there is "difficulty, at times, in keeping them out of the laboratory."

Presently active in the U. R. P. program are Miss Lloyd, Abplanalp, Linda Morgan, junior from Somerset (with Dr. Jackson), and Dennis Feehey, junior from Carnegie (with Dr. Hall).

CALENDAR

Saturday, Aug. 5

Square dance, 9-12, HUB ballroom.

Sunday, Aug. 6

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Harold K. Schilling, dean, The Graduate School, on "Biblical Ways of Thinking."

Monday, Aug. 7

Opening night of Mateer Playhouse production of Arthur Miller's "A View from the Bridge," 8:30 p.m., Standing Stone.

Duplicate bridge, 7 p.m., HUB card room.

Tuesday, Aug. 8

Summer Science Institute lecture, 4 p.m., Room 111 Boucke. Dr. Mary L. Willard, professor of chemistry, on "Chemical Microscopy."

Mixed swimming, 8-9:30 p.m., Glennland pool.

Faculty women swimming, 3:30 p.m., White Hall pool.

Wednesday, Aug. 9

Outdoor movie, "Island Rescue," starring David Niven, 9 p.m., lawn south of HUB. (Schwab Auditorium in case of rain).

Chess Club, 7 p.m., HUB card room.

Thursday, Aug. 10

English Colloquium, residence of Miss McElwee, Dr. Henry W. Sams, on Augustan "Imitation."

Phi Delta Kappa initiation and banquet, 5 p.m., Home Economics Auditorium and 6:30 p.m., HUB dining room "A".

Mixed swimming, 8-9:30 p.m., Glennland pool.

Friday, Aug. 11

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. L. M. Falicov, Institute for Study of Metals, U. of Chicago, on "The Many-Body Problem in Electron Correlation in Solids."

Interlandia Folk Dancing, 7:30 p.m., HUB ballroom.

Mixed swimming, 8-9:30 p.m., Glennland pool.

Saturday, Aug. 12

Square dancing 9-12, HUB ballroom.

faculty BULLETIN

Vol. 49, No. 5

Aug. 4, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

CALENDAR

Saturday, Aug. 12

Square dancing, 9-12, HUB ballroom.

Sunday, Aug. 13

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Preston N. Williams, assistant University chaplain.

Monday, Aug. 14

Mateer Playhouse production of "A View from the Bridge," by Arthur Miller (second week), 8:30 p.m., Standing Stone.

Duplicate bridge, 7 p.m., HUB eard room.

Tuesday, Aug. 15

Chemistry Seminar, 10 a.m., 203 Whitmore. Dr. N. Ibl, Swiss Federal Institute of Technology, Zurich, on "Convective Mass Transport in Electrolysis."

Mixed swimming 8-9:30 p.m., Glennland pool.

Faculty women swimming, 3:30 p.m., White Hall pool.

Wednesday, Aug. 16

Outdoor movie, "Man Without A Star," starring Kirk Douglas, 9 p.m., lawn south of HUB (Pavilion in case of rain).

Chess Club, 7 p.m., HUB eard room.

Thursday, Aug. 17

Talk by Dr. Marvin Rozen, assistant professor of economics, on "Factors Affecting Economic Growth in Developing Nations," 12 noon, The Chapel, sponsored by Friends Peace and Social Order Committee.

Mixed swimming, 8-9:30 p.m., Glennland pool.

Interlandia folk dancing, 7:30 p.m. HUB ballroom.

Friday, Aug. 18

Mixed swimming 8-9:30 p.m., Glennland pool.

News in Brief

Construction

A report of construction progress on campus and at Commonwealth Campuses was given to the Board of Trustees last week:

1. **East Halls** — completed and are being prepared for occupancy in September. Dining hall for 1,046 nearing completion and final grading and landscaping in progress.

2. **Education** — all of structure for east and west units of the classroom wing completed and structure for administration wing started. Project should be completed by June 1, 1962.

3. **Horticulture research** — exterior nearly completed.

4. **Mineral Sciences** — footings and foundation completed.

5. **Power Plant** — installation of new boiler and auxiliaries on schedule and should be completed by Fall.

6. **Borland Lab** — masonry work underway on the addition, which is to provide a milk unloading area.

7. **McKeesport Student Union** — exterior masonry work completed.

8. **Behrend Classroom** — footings and foundation walls completed.

Progress in planning of other structures was reported also:

1. **Nuclear facilities** — bids will be requested by the GSA in the near future.

2. **Recreation Building** — final drawings for the addition to be completed by the end of the year.

3. **Arts and Humanities** — final plans for the building to be built north of The Chapel will be completed by March. The General State Authority will ask for bids within the next few weeks of Phase I of this project, which involves alterations to Carnegie Stock Judging Pavilion, and the Pavilion.

Improvement Course

A Reading and Study Improvement course at the Abington and Swarthmore offices of Continuing Education has enrolled 103 college-bound high school graduates this summer.

Five classes are being held in the Philadelphia area, including morning and evening sessions at the Ogontz Campus. Classes are held daily, for 80 minutes. The course is the result of requests and recommendations of many high school counselors to help in preparing in reading and study skills.

S. Lee Varker, district administrator is in charge of the programs at two locations and Richard Swavely, also district administrator, is in charge at the third.

MEETING CANCELLED

The meeting of the Graduate School Faculty originally scheduled for August 15 has been cancelled.

Dennis Resigns

Lawrence E. Dennis has resigned as vice president for academic affairs, effective Sept. 30, to become associate director of the Peace Corps.

In his new position he will be responsible for the administrative coordination of all matters relating to the recruitment, selection, and training of Peace Corps volunteers and the development of personnel support services for volunteers on assignment overseas.

The responsibilities of the vice-president's office are now shared by a number of staff members, including Dr. Howard A. Cutler in his capacity as assistant to the President for academic affairs.

➤ **PICNIC:** A grove of trees along Park Road, west of Beaver Stadium is the site of the new picnic area to be developed over a three-year period to replace the area lost through the planned construction in Hort Woods. Much of the equipment will be moved in the first year, water lines will be extended into the area and additional trees will be planted.

➤ **LOAN FUND:** Income from investment of a principal of \$40,000, bequest of the late Ermin Forest Hill, 1897 graduate of the University, will be used for loans to seniors and graduate students. Graduated with first scholastic honors, Mr. Hughes later taught in the schools of Hughesville, Lycoming County, and in 1904 was admitted to the bar.

➤ **ACTING:** A demonstration of styles of acting, featuring scenes from Moliere, Chekhov, Ibsen, and Shakespeare, will be held Thursday, August 24 at 9:30 a.m. in the Little Theatre, basement of Old Main. Drop-in attendance is invited.

The demonstration is part of Theatre Arts 404 course, taught by Max Fischer, director of Mateer Playhouse.

➤ **DEVELOPING.** Dr. Marvin E. Rozen, assistant professor of economics, will speak on "Factors Affecting Economic Growth in Developing Nations," Thursday, Aug. 17 in the Helen Eakin Eisenhower Chapel Lounge, at 12:25 p.m. with a discussion to follow.

The Friends Peace and Social Order Committee is sponsor of the talk. Coffee and a light lunch are available to those who can't bring their own.

➤ **CHEMISTRY:** A special Chemistry Seminar will be held Tuesday, Aug. 15, at 10 a.m. in Room 203 Whitmore to hear Dr. N. Ibl, of the Swiss Federal Institute of Technology, at Zurich. He will talk on "Convective Mass Transport in Electrolysis."



Dr. George M. Guthrie, professor of psychology and assistant director of the Peace Corps program, examines educational testing materials with Pepita Jimenez, graduate student from the Philippine Islands. Dr. Guthrie, with some help from Miss Jimenez, is trying to provide the Peace Corps volunteers with the kind of information they need concerning the Filipino culture to lessen the problems in adjusting from the American cultural pattern.

Peace Corps hazard

Prepare for culture shock

PEACE CORPS volunteers who have begun their seven-week training for service in the Philippines are being well prepared to resist "culture shock," an "illness" which infects some people who take up residence in a society completely different from their own.

"Many Americans have been unable to make the transition to a new culture," says Dr. George M. Guthrie, assistant director of the Peace Corps project on campus, "and the result has been a disaster for themselves and for the country.

"It would be particularly unfortunate if Peace Corps volunteers, faced with the problem, couldn't make the necessary adjustment. If they are aware of the differences between their own culture and that of the country they are to visit, they are more likely to adjust.

"Most important, I feel, is that they begin their work with the attitude that they are going to learn to live in a new culture, and not try to change the culture to fit themselves."

As an example, Dr. Guthrie notes that some Peace Corps people may have to develop a new humility concerning social problems and that to be critical of the Philippines can only bring a reminder that segregation, graft, crime, etc. plague the United States.

Another problem to be faced by

Peace Corps Volunteers in some parts of the world is loneliness, although in the Filipinos they will find the most friendly people anywhere. Hospitality

Dr. George M. Guthrie is professor of psychology and assistant director of the Peace Corps program on campus. He has been a member of the faculty since 1949. He is a graduate of the University of Western Ontario with a Ph.D. from the University of Minnesota.



From June, 1959, to June, 1960, he was on leave at the Philippine Normal College at Manila to do research in psychology under a Fulbright grant. In particular, his study was titled, "Role Behavior in Childhood and the Process of Education."

The year in the Philippines, some of it back in the smaller towns and villages, gave him an excellent opportunity to learn about the people and about their educational needs. The background is extremely helpful in his role in the Peace Corps project.

is in the extreme and, as Dr. Guthrie puts it, "is almost embarrassing."

"In spite of that extreme friendliness, however," Dr. Guthrie points out, "they are resentful, as anyone is, with breaches of their cultural rules. For example, if one person has done another a favor, it is just assumed that the favor will be returned. The obligation is not paid off favor-for-favor — it is a continuing pattern, not to be broken. Americans may not be expected to conform completely to this system, but they cannot ignore it."

The ten class periods available to explain the Philippine culture is little enough time to orient the 162 Peace Corps volunteers here now and the 150 more due to come later during the academic year. Dr. Guthrie is one of five faculty members who have had experience in the Islands, and all agree that there is much to be taught the volunteers to help them adjust to the culture under which they will live for the two years following their training.

"For the most part, they will be in small towns or villages, either barrios or poblacions," Dr. Guthrie explains. "The people will be Visayans or Christians. Their leader is a barrio lieutenant who represents the model of tradition and aversion to change.

"With such a leader, it is natural for the people to want to retain the status quo and so Peace Corps people will find that if they rush in to bring about social changes they will be resisted.

"I don't want to give the impression that improvements are not wanted. If a road is needed, they will want the road, but the government is expected to build it and it must be done this way. They will do without the road rather than change the system."

Status is all-important to Filipinos (not unlike the attitudes of many U.S. citizens) and it must be recognized. Innovators may have some chance of accomplishing a change in the barrio if they have a high enough status — as lieutenant, teacher, or herbolario (person who cures with herbs and magic). Also important is the landlord because many homes are rented and he lends money to meet the farmers' needs until the next crops.

A third concept it is important to understand is the significance of relatives. A man has obligations to his parents, brothers, sisters, his wife's parents and other children, and to such ceremonial relatives as god-fathers and others. Many village people prefer to avoid the city because they would have no relatives to turn to if they needed help.

The Filipino is typically sensitive
(Continued on page four)

SENATE MINUTES

Meeting of August 1, 1961

The University Senate met at 3:55 p.m. on Tuesday, August 1, 1961, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the June 1, 1961 meeting were approved as printed in the Faculty Bulletin for June 16, 1961. Eighty-eight senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. W. Dunne (A. J. Winter), E. M. Elias (V. L. Van Horn, Jr.), J. J. Gibbons (C. R. Burnett), C. F. Hager (R. W. Condee), D. E. Hardenbergh (Walter Jaunzemis), Coleman Herpel (W. L. Ferree), E. P. Hexner (Vaclav Mares), M. W. Isenberg (G. H. Albright), R. C. Maloney (H. J. O'Brien), J. E. Montgomery (Miriam McGrew), N. A. Norton (W. E. White), M. S. Osborne (L. A. Richardson), H. J. Read (J. H. Hoke), C. G. Reen (J. B. Nesbitt), E. B. Richie (W. R. Geelan), F. J. Simes (R. Q. Murphy), H. O. Triebold (C. O. Clagett), A. W. VanderMeer (C. J. Schaefer), and M. A. Williamson (A. T. Thompson).

New Senators

A letter was read from F. W. Peikert, Head of the Department of Agricultural Engineering, stating that H. V. Walton would be Acting Head of the Department for three months starting August 1, 1961.

A letter was read from J. W. Breneman, secretary of the College of Engineering and Architecture Faculty, stating that Carl Volz had been elected for the academic year 1961-62 to replace D. F. White.

A letter was read from F. G. Brickwedde,

Dean of the College of Chemistry and Physics, naming the following elected senators:

W. G. Braun for A. W. Hutchison on leave August 1, 1961 to July 31, 1962.

J. G. Aston for Joseph Jordan on leave September 17, 1961 to March 16, 1962.

D. H. Rauk for L. H. Sommer on leave September 1, 1961 to August 31, 1962.

Excerpts from the minutes of the June 2, 1961 meeting of the Board of Trustees were read as follows:

Approval of the new Curriculum in Mathematics in the College of the Liberal Arts.

Approval of the new Curriculum in Geological Sciences to replace the present curriculum in Geology and Mineralogy and the curriculum in Geophysics and Geochemistry in the College of Mineral Industries.

A letter was read from D. G. McGarey, Chairman of the Senate Committee on Faculty Affairs, which transmits a report by S. H. Campbell, Director, Special Project Business, concerning floating parking permits for students. The report is as follows:

Following is a list of persons who are students, and who receive any area parking permits.

	Summer	Winter
President of I.F.C.	1	1
Collegian	1	3
Student Counselors	4	4
S. G. A. President	0	1
S. G. A. Vice President	0	1
S. G. A. Treasurer	0	1
A. I. M. President	0	1
Dry Cleaning	0	1
Student Agency	0	1
LaVie Editor	0	1
Student News Agency		
(Distribution of newspapers—not Collegian)	0	1
Student Rec. Department		
Student Instructors	0	2
WDFM Radio Station	0	2
	6	20

In addition to the any area permits, some students are certified by Dr. Glenn as being physically handicapped and need special parking privileges. There were 60 such students during the school year 1960-61. These students are not given any area permits, but are assigned to specific parking areas. The committee decided which areas should be used for this purpose.

Following is a list of the areas and the number of spaces in each area which are available for assignment to physically handicapped students

Parking Area	Number of Spaces
50	11
11	10
30	12
46	25
47	8
48	10
60	6
70	12
78	15

Undoubtedly, some of the students who have any area permits are abusing the privilege, and Mr. Diem tells me he will put on a campaign this fall to attempt to determine and correct the abuses, if there are any.

Persons who occasionally find their assigned parking area fully occupied should, according to the regulations, park in the nearest parking lot to theirs in a legal space and telephone the Campus Patrol that they have done this. Any other method of notifying the Campus Patrol would not be acceptable. If you need any further information or assistance, please do not hesitate to ask for it.

The following communications were received from officers of the Behrend Workshop Committee held July 18 and 19, 1961.

From Eugene Heide, Chairman Behrend Workshop Agenda Committee:

At the Behrend Workshop meeting of Commonwealth Campus Directors on July 18 and 19 a resolution was passed recommending a change in admission policy. The resolution states that "It is recommended that the Dean of Admissions should admit to several Commonwealth Campuses high school graduates below the first-fifth on an experimental basis. This experiment is to be conducted by the Dean of Admissions. Students admitted on this basis should have a predicted probability of success and admission should be for a specific trial period of one or two terms. This experiment should always start in the Summer Term."

The President referred this communication to the Senate Committee on Admissions.

From Coleman Herpel, Recorder, Section II (General Education and the Commonwealth Campuses, Behrend Campus Seminar, 18 and 19 July 1961):

At the Behrend Campus Seminar of 18-19 July 1961 the Directors of the thirteen Commonwealth Campuses (not including University Park) adopted unanimously the following resolution:

RESOLVED, that the Directors of the Commonwealth Campuses recommend to the University Senate that in addition to a minimum number of credits required to earn an Associate Degree a maximum number be established.

From Frank C. Kostos, Director, Hazleton Campus:

The Directors of the Commonwealth Campuses of The Pennsylvania State University held a conference at the Behrend Campus on July 18 and 19, 1961 for the purpose of discussing some problems affecting the Commonwealth Campuses.

As a result of discussion of the Associate Degree the following resolution was offered by the Commonwealth Campus Directors:

"The following definition be submitted to the President of the Faculty Senate for consideration by the Senate Committee on Education Policy"

"An Associate Degree is conferred to indicate successful completion of a minimum of sixty (60) credits in an approved program of collegiate level above the secondary school."

President Walker referred the last two communications to the Senate Committee on Educational Policy.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, gave an informal report of the work of the Committee during the year 1960-1961. He stated that the Committee met 40 times from October 4, 1960 through July 21, 1961 for a total of 71 hours and 19 minutes and considered 1352 actions. Six new curriculums were added and six old curriculums were dropped. In addition there were 82 changes in curriculums. Two hundred sixty-eight new courses were added and 194 old courses dropped. He pointed out that the actions taken during this year were included in two catalogs, 1961-1962 and 1962-1963, and that many of the actions were occasioned by the change over from the semester to the term system by the University. He felt that it had been good to hold publication of the 1961-62 catalog in order to include in it revisions of all academic programs to conform with the term system. Mr. Shelley then presented the report which had been

(Continued on page four)

Fellowships available

The National Science Foundation has announced its program of Science Faculty Fellowships and of Senior Postdoctoral Fellowships, both of which may be of interest to the faculty and both of which have application deadlines of Oct. 9. Awards will be made Dec. 11.

About 400 Science Faculty Fellowships will be awarded to college teachers of science, mathematics, and engineering to improve their competence as teachers. Awards will be made to (1) those holding Ph.D. in science or mathematics, or (2) those not holding the Ph.D. Stipends will be adjusted to approximate the same income as that derived from the normal salary, but reduced by the amount of other fellowship or sabbatical leave salary received. Travel allowance and additional allowance for special needs also available.

Approximately 125 Senior Postdoctoral Fellowships will be granted to scientists five years or more past the doctoral degree who have, relative to age, experience, and opportunities, received recognized stature in their fields. The fellowships are not designed to support preparation of materials for publication or the writing of a textbook as a primary objective but rather to increase the competence in some specialized field of science or broadening competence in related fields of science. Stipends are computed on a salary-matching basis, reduced by the amount of other fellowship or sabbatical leave pay received.

For both fellowship programs, bulletins giving more detail and application materials are available at the Graduate School Office, 101 Willard.

Peace Corps —

(Continued from page two)

to criticism and his pride is easily wounded. Even criticism from superiors is difficult for him and the teacher must recognize the trait in his relationship with students.

On the other hand, Dr. Guthrie points out, parents are ambitious for their children and a surprising percentage go to college. All too often, however, the child drops out after the fourth grade because he has an unsatisfying experience in school resulting from his low level of language understanding.

"And there is the crux of the Peace Corps purpose in the Philippines program," Dr. Guthrie says. "Basically, these people will serve to help the Filipinos in an educational hurdle which has been a real stumbling block to progress.

Language troubles

"Many children would, in effect, be required to know four languages to complete the educational process. Tagalog is the basic language, but many families speak a dialect, such as Visayan. Spanish is required in the schools, a throwback to the early days of Spanish rule of the islands.

"English is now desired, not only because of the 50-year American influence, but because the Tagalog-Visayan-Spanish means of communication has no way of expressing many of the scientific ideas of modern education. Consequently, the students can't think in scientific terms, and advanced education is too difficult; hence the drop out rate is 50 per cent at the end of the fourth grade."

There is no thought of making

English the sole or even principal language of the Islands, although there is a strong urge to emphasize it.

"The Peace Corps volunteers will be primarily resource persons, available not only to the teachers in the school systems but to the community as well. In each case in the school, the Filipino teacher will have control of the class," Dr. Guthrie explains.

The Peace Corps person will not have difficulty "selling himself," because the Filipinos will look forward to his help. The more difficult part of the assignment will arise when the lustre has worn off and the day-to-day problems and frustrations seem endless.

"There is much to be done in the Philippines," Dr. Guthrie says, "but the Peace Corps volunteers must not expect to bring about changes overnight; perhaps they won't accomplish any visible change.

"The program is an investment for this country, in that the volunteers should come back with a better understanding of the nature of living in the Philippines. You don't get it in Manila where most foreign nationals stay. You can only get it by viewing the entire country. There won't be any better opportunity than that afforded by living in the barrio or poblacion.

"But the adjustments, physical and psychological, will be many. We are attempting to forewarn by information. It is fortunate that we have so many people on the faculty who have had experience in the Philippines, students from the Islands, and resource persons from other institutions we can call on.

"Perhaps we can lessen the culture shock."

Senate —

(Continued from page three)

distributed in two sections. One section had been distributed with the agenda as Appendix "A" and one section had been mailed one week later. He moved that Items I A, I B, and II of Section I be approved. The motion was seconded and passed. He then stated that Item III was for the information of the Senate and requested that the senators get in touch with the secretary of the Committee if they had any questions concerning the proposed action.

Mr. Shelley next moved that items I A, I B, and II of Section II be approved. The motion was seconded and passed. He asked for unanimous consent of the Senate to vote on Item III of Section II which contained proposals which had not previously been distributed. There being no objection, Mr. Shelley moved that Item III be approved. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Comments and Recommendations for the Good of the University

The President discussed the current financial situation facing the University and the reasons for the planned increase in tuition and the planned restriction in new projects during the academic year 1961-62.

The next regular meeting of the University Senate will be on Tuesday, October 3, 1961 at 3:55 p.m.; the agenda will be distributed on September 19, 1961. The meeting adjourned at 4:35 p.m.

Robert G. Bernreuter, *Secretary*

Medical Plan

Under study by Jefferson Medical College, of Philadelphia, and the University is a cooperative plan designed to shorten the time required to obtain a medical degree. The study has been underway for some months.

Major objective in the early stages of the study has been to eliminate course duplication, with the aim of reducing the present eight-year program by as much as 18 months.

Under the plan, the two schools might also exchange faculty members.

faculty BULLETIN

Vol. 49, No. 6

Aug. 11, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

1 Weekly Publication
The Pennsylvania
State University

Analysis Program

DISTRIBUTION of a new, simplified Analysis of Faculty Activities form was begun this week with a view to getting basic data on resident education, research, and continuing education.

The new form was developed by the Division of Accounting, with aid from representatives of several colleges, to minimize the individual's time in completing the form and yet to provide the Division with the vital information needed.

"We have long recognized that paper work is burdensome to faculty members," says Carl R. Barnes, University controller, "and we have made every effort to ask only the absolutely essential questions on the form.

"With the data, we can assist the President greatly in his appeals to Harrisburg at appropriations time. Also summaries of it help us plan buildings and use personnel more wisely. And thirdly, the various colleges and departments can get a clearer picture of their operations by a review of their own data.

"I would like to emphasize, however, that we are not attempting an analysis of the individual's work load in this type of study, as will be indicated by the fact that nowhere on the form is there a place to show how many hours the faculty member works each week. Every notation is in terms of the percentage of the person's full time."

The new form eliminates some of the activity categories used in previous years without sacrificing any of

(Continued on page four)

NEWS IN BRIEF

► **COMMENCEMENT:** Members of the faculty are invited to attend Commencement Exercises Saturday, Aug. 26 at 10:30 a.m. in Recreation Building. Those who wish to join the academic procession will assemble under the south balcony at 10:15 a.m.

Seats on the right side of the floor will be available for members of the faculty who will attend in civilian dress.

As of Monday, August 14, it was expected that a total of 923 degrees would be granted, including 356 bachelor's degrees, one master of agriculture, 4 master of business administration, 346 master of education, 111 master of science, 19 doctor of education, and 38 doctor of philosophy.

Of the 356 bachelor's degrees, 37 are in agriculture, 49 in business administration, 13 in chemistry and physics, 81 in education, 53 in engineering, 23 in home economics, 43 in liberal arts, 45 in mineral industries, and 11 in physical education.

► **MISSILES:** Simulation of the behavior of a missile in flight will be the object of a research study by Dr. Carl Volz, professor of electrical engineering, under a grant from the Army Ballistic Missile Agency. The grant totals \$10,277.

Objective of the study is to devise an analog simulation of dynamic missile behavior which will enable the Agency to plot a missile's flight behavior without firing a missile.

► **SAFETY:** A grant from the Commonwealth of \$45,000 will aid research in the department of mechanical engineering aimed at finding more skid resistant pavements.

Under the direction of Wolfgang E. Meyer, research has been done for several years on the friction of rubber and tires and for the purpose a special testing trailer has been developed by which road friction can be measured. A new trailer, incorporating features to make simple, reliable, and economical pavement surveys, will be built.

► **COOPERATION:** Albright College and Penn State will cooperate in presenting a program of liberal studies for adults in the Reading (Pa.) area this fall.

The program is a series of non-credit, study-discussion courses designed to help men and women become aware of the problems facing us in the changing world.

The Center for Continuing Liberal Education, directed by Dr. Cyril F. Hager, has developed the programs, which are conducted in a number of

communities. Selected readings and trained discussion leaders are emphasized in the presentation of the course material.

► **ACTING:** The public is invited to see a demonstration of several styles of acting, employing scenes from Moliere, Chekhov, Ibsen, and Shakespeare, in the Little Theatre, Old Main, Thursday, August 24 at 9:30 a.m.

Max Fischer, director of the Mateer Playhouse, teaches the class in Theatre Arts 404 of which the planned workshop demonstrations are a part.

► **SEMINAR:** The third seminar in the series on atomic shelters begins next Monday and will continue for the week.

Entitled "Survival in the Nuclear Age: Executive Management," the program is in the charge of Gifford H. Albright, associate professor of architectural engineering. Assisting him is Allen F. Dill, associate professor of architectural engineering.

► **POULTRY:** Nearly 1,300 poultry researchers and others interested in the field of poultry science attended the 50th annual meeting of the Poultry Science Association last week on campus. Among the 340 papers read during the sessions, 13 were by University faculty members.

Dr. A. J. G. Maw, head of the Poultry Husbandry Department, was chairman of the local arrangements committee.

► **MOVIE:** The University's 15-minute color movie, "The Land-Grant Murals," has been added to the lending library of the National Educational Radio and Television Center, making it available to the 52 educational television stations in the country for broadcasting and other purposes.

The movie was recently revised to orient it to the forth-coming land-grant centennial celebration and has been cited by the American College Public Relations Association in its yearly honors competition.

► **PEACE CORPS:** Greg Potvin, chief recruiting officer for the Peace Corps, will speak to the volunteers on campus and to anyone interested in the subject, "Peace Corps Recruiting," this evening (Friday, Aug. 18) at 7 p.m. in Room 110 Electrical Engineering.

► **MOVED:** Dr. Jules Heller, professor of art and director of the School of the Arts, has moved to Room 221 Home Economics. He was formerly in Sparks Building.

Personnel matters

Leaves of absence for the following members of the faculty have been announced:

Dr. Alfred G. Pundt, professor of European history, from Dec. 16 to June 16, 1962, to work in France on a history of the French working class and do research in related phases of French economics and history.

Dr. Leo H. Sommer, professor of chemistry, from Sept. 1 for one year, to work on a textbook on organosilicons, for which he has been awarded a John Simon Guggenheim Memorial Fellowship. He will also hold colloquia at the Universities of California at Berkeley and Los Angeles and the California Institute of Technology. He will be at Harvard University to hold discussions with the chemistry faculty for about ten months, relative to the book.

Dr. Robert W. Kautz, associate professor of business statistics, from Sept. 1 to May 31, 1962, to teach and do research at the University of Saskatchewan, Canada.

Dr. A. Witt Hutchison, professor of chemistry, from August 1 through July 31, 1962, to work with the fellowship program of the International Atomic Energy Agency and be responsible for the visiting research scientists' program of the National Academy of Science.

Dr. Michael P. Gaus, assistant professor of engineering mechanics, from Aug. 1 through June 30, 1962, to join the National Science Foundation as an assistant director, Division of Mathematics, Physics, and Engineering.

Dr. Jesse E. Livingston, head of the department of botany and plant pathology, died Tuesday, Aug. 15, in Washington, D.C. He was 52 and had been a member of the faculty since 1958. Prior to coming here he had been chairman of the department of botany and plant pathology at the University of Maine.

A Jesse E. Livingston Memorial Fund has been established in the department of botany and plant pathology.

Charles A. Prosser, safety coordinator for the university, died Saturday, Aug. 12 at the age of 45. A 1939 graduate of the University, he joined the staff in 1946 as assistant to the director of purchases. He assumed his last position in 1960.

Faculty discusses changes

WITHIN THE LAST YEAR, there have been several important adjustments in the academic structure of the University — change from semester to term system, lengthening of the class period, elimination of final exam week, and elimination of Senate rules regarding class attendance.

Six members of the faculty, selected randomly from among those teaching this summer, have commented on their reactions to the changes.

KINSLEY R. SMITH

(Teaching Psy. 2 and Psy 431. The Psy. 2 students are a normal but smaller group of full-time students).

I don't feel the necessity to push students as in past Summer Sessions because of the spacing of classes — three times per week instead of five times. When class periods come close together and the exams must be prepared a week ahead, there is a tendency to teach toward the exam and I feel tied down. So all in all, I like the ten-week term better than six-week summer sessions, and it hasn't presented any special problems.

I have instituted a five minute break halfway through the period which paid an unexpected dividend. I find that many students use that time for a person-to-person contact with me, asking questions which for one reason



or another they would not ask before the entire class.

I don't know whether two lecture sessions in succession would fatigue me unduly, especially if more use were made of public address systems to reduce the fatigue resulting from talking almost at a shout because rooms are acoustically poor.

Teaching four times in succession would not be burdensome to me but I think some rearrangement of the calendar would be of help, particularly in going back to the three-week Christmas vacation and increasing the time between the summer and fall terms.

I will give an exam in the final week but it will cover only the material in the last quarter of the term; I have already given two exams.

The longer class period hasn't seemed to create any problem of class attention. It seems to me that if the instructor indicates that he is about ready to stop for the period, the class will stop too, but 75 minutes isn't too long for the students.

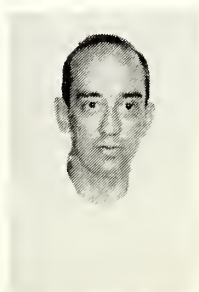
JACK BENSON

(Teaches a class in Chemistry 451, enrolling 18 undergraduate and 9 graduate students. This is a service course in thermodynamics for chemists, chemical engineers, mineral industries students, and a few from education).

As far as I can judge the student gets restless after 48 minutes of a 50-

minute class and after 73 minutes of a 75-minute class. The longer period hasn't seemed to have affected their attention. We had no break in the period. I rarely lecture but cover problems with the students, and discussion is an important factor in the class. The shorter periods seemed to cut discussion.

Perhaps the students have been caught unawares by the shortness of the term, but I think that it is merely a matter of experience, and once the



students get accustomed to it I don't think this will be any problem.

I couldn't teach two or three classes in succession; it would be too tiring; but apparently it doesn't make any great difference to the students because they are used to it.

I don't plan to have any final exam because 75 minutes isn't long enough for a comprehensive exam, and to take two periods would reduce the number of class meetings to 28.

There have been cuts this term, but it is my opinion that if they really want to get their money's worth from their education, students will come to class. Perhaps the fact that the course was given at 8 a.m., that the room we were in was very hot and humid, and that they sometimes thought they could get the material from someone who had attended class may account for the cuts.

The students shouldn't go to school four terms in succession. I did it myself and know the disadvantages; I think a vacation is necessary.

DAVID WESTFALL

(Teaching C. E. 15, 16, and 17, courses in surveying on campus, to full-time civil engineering. There is a lecture period in the morning and a practicum in the afternoon for three periods).

It seems to me that the 75-minute period permits us to get more than half again as much work done as we did in the 50-minute periods, probably because there isn't as much waste motion in getting the class started.

There have been some changes made in the organization of the class material but this was required because we reorganized the courses. I think that the longer period is better from the standpoint of quizzes, also, because the student doesn't feel as rushed. We won't have a final exam because we will have four 75-minute quizzes in addition to their surveying problems on which to judge them.

The longer period hasn't been tiring, but two such lectures in succession would be a problem to me. I did handle the lectures for another course for two weeks while the instructor was on vacation and it was very exhausting.

The students seem to be getting accustomed to the pace they must work at in the ten-week sessions and are keeping up with their work well, but I have the impression that they don't like to have so much to learn in such a short time.



A. BRUCE SUTHERLAND

(Teaches a graduate course in literature, with a seminar once per week and individual conferences).

This course has been taught in the regular semester and also in a six-weeks summer session. It seems to me very difficult to assimilate the amount of reading assigned in the shorter period of ten weeks but it is obviously much better than the six-weeks Summer Session of the past. In

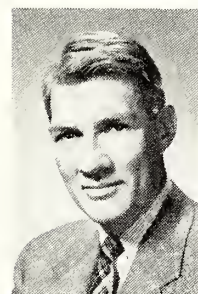
previous summers the student could not develop any lengthy term paper as we prefer to have them do.

I think that many students in the regular semester made use of Christmas and Easter vacations to do much of their reading for the course, but neither of these periods will be available now and it appears that the student must plan his time differently.

One minor disadvantage of the ten-week term is that we must get the student started immediately on his term paper and so instead of giving him a short time to select his own topic, I have had to assign subjects.

The 75-minute period isn't a new experience for me because I have taught in Summer Session before. I like the longer period and I haven't had any more of a problem in holding the students' attention than before.

There is no final exam in the course but the term paper is due during the ninth week so it can be graded and returned, and if necessary, rewritten.



ROY C. BUCK

(Teaching Rur. Soc. 11 and Soc. 10J, with lectures in consecutive periods, three days per week).

I haven't taught in the summer before — the time was reserved for research in the past — but it seems to me that students are more serious than they have been, apparently realizing that the summer term is not "Summer School."

As for the longer period, I am heartily in accord with it, but two lecture sessions in a row are too much — too tiring on the teacher. I seem to be getting more class discussion but perhaps the longer period is not the reason. In my lectures I have always stopped for discussion but I think in 75 minutes I am able to work in more discussion proportionately than I could under the old system.

The ten-weeks session, as opposed to the semester plan, hasn't posed any special problems. I think I might have gone a little rapidly in the early weeks to make sure all material would be covered, but that is simply a matter of experience. The students seemed to be able to take it, in any case.

I have scheduled an exam for the final class period and there was no reaction from the students.



J. B. McMANIS

(Teaches English 2, a course for superior freshmen. It is a reading survey course, for which the students read seven or eight great books).

In the English 2 course the longer period didn't seem to present any problems; the period sometimes seemed all too short. But I observed an English 1 class and even though the instructor did a good job the students were lethargic and not one student as far as I could see was taking notes. Apparently much depends on the calibre of the students.

I haven't made any change in the organization of material for the course

and I haven't found a break in the period necessary for either the students or for myself. And I don't think I would have trouble with two lectures in succession; I have had four 50-minute lectures in a row in the past.

Attendance in classes hasn't been as good, for some reason, as in past semesters and I have found it necessary to caution the class that it could affect their grades. But whether this is due to summer, the longer period, or what, I don't know.

In the fall I shall be lecturing to a class of 100-125 freshmen in English 1; it will be interesting to see whether it is possible to keep the attention of the class for the longer period in a subject which is difficult and not very exciting. The class I have now is excellent.



CALENDAR

Friday, Aug. 18

Talk by Greg Potvin, chief recruiting officer, Peace Corps Volunteers, 7 p.m., Room 110 Electrical Engineering, on "Peace Corps Recruiting."

Sunday, Aug. 20

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. William G. Mather, head of the department of sociology and anthropology, on "The Gospel of Jesus in the Life of Man."

Monday, Aug. 21

Duplicate bridge, 7 p.m., HUB card room. Opening night of Mateer Playhouse production of "Fallen Angels," 8:30 p.m., Standing Stone.

Tuesday, Aug. 22

Mixed swimming, 8-9:30 p.m., Glennland pool.

Faculty women's swimming, 3:30 p.m., White Hall pool.

Thursday, Aug. 24

Faculty women's swimming, 3:30 p.m., White Hall pool.

Saturday, Aug. 26

Commencement exercises, 10:30 a.m., Recreation Building.

Analysis —

(Continued from page one)

the usefulness of the summaries, explains William F. Christoffers, deputy controller.

The instructional activities summary retains the detailed data concerning enrollments, credits, and type of instruction (lecture-demonstration, practicum, recitation, or other) for the various course levels. Basic purpose of this type of data, Christoffers explains, is to get a clear idea of the student-credit costs the University is confronted with, in all types of instruction.

"This year, for the first time, instructional time will include all activities related to instruction," Christoffers says, "including class preparation, grading papers and similar activities, and curriculum planning, committee work related to instruction, and advising students.

"This, we think, will more truly reflect the costs of instruction, when they are compared to research or continuing education activities."

One of the uses to which similar summaries have been put in the past is to study the changes taking place in instructional and research costs by comparing with data of previous years.

All persons with academic rank, whether full or part time, will complete the form (many departments handle the routine data, sparing the faculty member that chore) including graduate assistants and those on an hourly basis having teaching duties. Each department head reviews the data and signs the form.

The forms are directed from the several departments through the offices of their respective deans and returned to the Accounting Division.

Aide Scholarships

A total of 71 outstanding junior and senior students served as faculty aides in the Summer Term under the scholarship program initiated this year by President Walker.

Thirty of the scholarships were granted for teaching projects and 41 for research projects, according to Ralph N. Krecker, director of student aid. The scholarships were available only to outstanding students and only on the recommendation of a faculty member under whom the teaching or research responsibility was carried out. They were valued at up to \$100.

Twenty College of Education students received scholarships, 16 College of the Liberal Arts, 13 Business Administration, 9 Engineering and Architecture, 6 Agriculture, 3 Mineral Industries, 2 Chemistry and Physics, and 1 each in Home Economics and Physical Education.

All of the students selected had all-University averages of 3.0 or better with the exception of a few who were close to a 3.0 average and had done outstanding work in the courses particularly related to the work undertaken under the scholarship plan.

Coward at Mateer

Noel Coward's frothy comedy, "Fallen Angels," will be the final production of the summer at Mateer Playhouse, opening Monday, Aug. 21 and continuing through Saturday, Aug. 26.

One of Coward's most popular farces, "Fallen Angels" is concerned with the attempts of two ladies to keep their husbands from discovering episodes in their past.

Patricia Maguire and Diana Frothingham will appear as the two ladies;

Gerald Richards and Will Gregory as their husbands; Ed Anderson as Maurice, the Gallic lover who was involved in the early episodes; and Marcia Salvatorre, as the maid.

The play was written in 1925 and dismissed by the critics then, but it has enjoyed an off-Broadway revival recently with great success.

Observatory planned

A small radio astronomy observatory will be established on the University farms and it will become an integral part of the Ionosphere Research Laboratory, directed by Dr. Arthur H. Waynick, head of the department of electrical engineering.

Principal research instrument in the new observatory will be a 30-foot radio telescope which will receive radio signals from the sun. It will be used to learn more about how changes in the sun affect the ionosphere.

A grant from the National Science Foundation has made possible the establishment of the observatory. Site preparation will begin in September.

International

Members of the faculty and their families who wish to offer informal hospitality to an international student are invited to fill in the questionnaire available in the Office of International Student Affairs, 108 Willard. The questionnaire lists various levels of service to international students from meal and recreational trip invitations to providing temporary housing upon their arrival in State College.

The preparation of a roster of hosts is sponsored by the State College Area Community Hospitality Council for International Students of which Dr. P. C. Weaver is chairman.

faculty BULLETIN

Vol. 49, No. 7

Aug. 18, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Television

Nearly 10,000 students will receive instruction via closed circuit television during the fall term.

In all, 21 classes will be given via television, contrasted with 17 last year. The courses and their instructors are:

Accounting 1 — Richard M. Colwell, assoc. prof. of accounting.

Accounting 5 — C. A. Nelson, assoc. prof. of accounting.

Air ROTC 1 and 4 — group of officers headed by Major C. M. Richardson and Capt. C. R. Cloar.

Army ROTC 1 and 2 — Capt. J. B. Ottinger, Capt. Bill Solley, Capt. G. L. MacGarrigle, Capt. Louis E. Manfree, and Capt. Thomas L. Scott.

German 1 — Albert F. Buffington, professor of German.

History 18 — Robert W. Green, assistant professor of history, and Ronald W. Linker, instructor.

History 20 — Ira V. Brown, associate professor of American history; Richard O. Curry, instructor; and John B. Frantz, instructor.

History 21 — Robert K. Murray, professor of history; Ari Hoogenboom, assistant professor; Stanley I. Kutler, instructor; Warren W. Hassler, assistant professor, Curry and Frantz.

Math 41 — L. T. Dunlap, associate professor of mathematics.

Math 43 — Frank T. Kocher, instructor of mathematics.

Music 5 — Elmer C. Wareham, Jr., instructor of music.

Psychology 17 — Clifford R. Adams, professor of psychology.

Sociology 1 — William G. Mather, head of the department of sociology and anthropology.

NEWS IN BRIEF

➤ **COMING:** Commencement exercises for the Summer Term will be held in Recreation Building at 10:30 a.m. tomorrow (Saturday). Faculty members who wish to take part in the academic procession should meet under the south balcony at 10:15 a.m. Other faculty members may be seated on the main floor.

Student Encampment activities will be held on the University Park campus this year instead of at Mont Alto. Dates for the Encampment are Sept. 14 through 16.

Orientation Week activities for about 6,000 new students will begin Sunday, Sept. 17. Fall Term registration will begin Sept. 20 (Wednesday).

The first home football game, with Navy as the attraction, will be played Saturday, Sept. 23.

➤ **CHILDREN:** A research study has been initiated by Dr. C. B. Broderick, associate professor of family relationships, on the subject of attitudes of children toward their contemporaries of the opposite sex.

The three-year study is being aided by a \$25,000 grant from the National Institutes of Health, Public Health Service.

In addition to tracing the development of cross-sex attractions and hostilities in children, Dr. Broderick will study the influence of parental reactions on these attitudes. About 1,500 children will be involved in the survey and 300 parents interviewed.

➤ **TRAFFIC:** A reminder has been issued by the department of security that no parking or stopping is permitted on Pollock Road. Purpose of the regulation is to maintain normal traffic movement at all times and reduce the hazards to pedestrians in the area of heaviest concentration on campus.

➤ **FELLOWSHIPS:** A total of 17 University students will have National Defense Graduate Fellowships during the Fall Term. Purpose of the fellowships is to encourage students to prepare for college teaching and to strengthen and extend facilities for graduate training of college teachers.

About 1,500 fellowships were awarded this year by the Commissioner of Education in 529 courses of study.

➤ **CONTRIBUTIONS:** Employees of the Titan Metal Division of The Cerro Corporation have contributed \$1,700 to the Alumni Fund, earmarked for a student loan fund to be available after Sept. 1.

The Company supplements the fund by matching contributions of the em-

ployees. Sons and daughters of Titan employees are to be given first preference for loans from the fund, participants in the company's Cooperative Training Program second preference, and graduates of Bellefonte, Bald Eagle, and Penns Valley Area schools third preference.

➤ **CONFERENCE:** Faculty and staff members are participating in a three-day conference on campus which brings together more than 100 students and staff representatives of the Commonwealth Campuses. The meeting is sponsored by the Organization of Student Government Associations.

M. E. Campbell, dean of student affairs for Commonwealth Campuses who arranged the meeting, explains that the purpose is to acquaint students with the ways they can develop leadership in campus activities.

Participating from the faculty and staff are :Dr. R. G. Bernreuter, R. E. Eiche, Dr. Emory J. Brown, James H. Coogan, Dr. Harold J. O'Brien, Dr. Harold W. Perkins, F. A. Snyder, F. M. Ciletti, and Dr. Martin L. Zeigler.

The conference concludes tomorrow.

➤ **HIGHWAYS:** A grant of \$32,140 by the Pennsylvania Department of Highways is aiding in a research project being conducted by Dr. William H. Gotolski, associate professor of civil engineering.

Purpose of the project is to evaluate the properties of asphalt used in highways relative to the time various types of paving materials require to deteriorate.

In addition to the monetary grant, the Department will lend equipment and samples of materials for the studies.

➤ **SWARTHMORE:** Twenty tuition-free scholarships will be awarded by the National Science Foundation to junior high school mathematics teachers in the eastern part of the State for a course in the foundations of algebra and geometry through the Swarthmore office of Continuing Education Services.

Classes will be held in the Springfield (Delco) High School one night per week for 16 weeks. In addition to tuition, recipients will receive Graduate School matriculation fee, travel allowance, and book allowance.

➤ **GEMS:** About 150 members of the Mineralogical Society of Pennsylvania who spend vacations searching for rare and beautiful mineral specimens

(Continued on page four)



Dr. Roger B. Saylor, professor of business statistics, discusses the problems of some Pennsylvania communities.

Some towns will die

SOME Pennsylvania communities, now classified as "depressed," will probably suffer even further decline because they have nothing to "sell" the outside world and are not likely to get it.

"Either a community must be completely self-sufficient — and there are no such communities in the U. S. — or it must sell something to pay for what it buys," explains Dr. Roger B. Saylor, professor of business statistics.

"When a community no longer has a natural resource industry to rely on, a manufacturing plant, a service industry such as insurance or education, or unless it is a town of people who live on income of past labors — then it no longer has reason to exist. It must go downgrade."

In many Pennsylvania towns the basis for existence has been the natural resource in the immediate area — generally coal. As the coal ran out, the community had no choice but to seek another product to sell — natural resource, manufactured goods, or a service.

"We should be realistic enough to see that some communities have little or nothing to offer except excess labor," Saylor says, "and the Commonwealth would do well to put its aid into its strengths, rather than its weaknesses."

"In other words, it is unwise to put development money into those communities which are likely to return very little on the dollar invested at

the sacrifice of communities which have a good chance of improving."

Saylor admits that the judgment of which communities should receive development money is not clearcut but points out that certain criteria will help in making the judgment: transportation, water, desirable places for workers to build homes — in short, the same criteria an industry or business would use in selecting a site.

In many depressed areas, Saylor points out, the problem of rehabilitation is complicated by the fact that the young people leave if they are at all ambitious and the population which remains has little drive or ability to carry out development plans.

"Often, too," he says, "leadership is lacking to stir the people to further effort. A community which has depended on a relatively few men to guide it, without encouraging young men to take their places when the time comes, finds itself in a difficult position when the old leaders die off."

There is little assurance, Saylor says, that education of the young people will solve the problem of their leaving, simply because they will go where employment opportunities exist to match the training they got, and in an already depressed area there

will almost certainly be fewer opportunities for the college-trained than in booming communities.

"Certainly the young people should be advised to get as much education as possible," Saylor says, "in part because it may be the means of escaping from the economic dilemmas of their home towns."

Curiously, while many young people want to leave their home town, thousands of adults who have moved to other areas for jobs are anxiously waiting the time they can return and are living in "temporary" quarters until they can.

"One factor which confuses the picture," Saylor says, "is that in some areas where the husband has been put out of work, the wife has taken a job while he becomes the housekeeper. The 'temporary' situation becomes more or less permanent because the husband isn't called back to the job he once held."

"His only solution, all too often, is to move to some other area and perhaps start in a new job. It isn't easy, and for many men at middle age it is virtually impossible. Employers will not take them because of age unless they have a skill vitally needed, and they haven't been retrained to a new skill."

For most communities the solution, at first blush, seems to lie in attracting new industry but the results are not always happy. The industry may not be able to hire the kind of people available; it may prove to be an industry which will move to another location at the drop of a hat; it may hire mostly women; because of automation it may need only highly specialized help.

In August, 1960, Syracuse University reported on a study it made for the New York State Temporary Commission on Economic Expansion. It warned that enthusiasm and effort alone are not enough to restore economic stability to many areas suffering from chronic unemployment. "The New York and New England experi-

PERSONNEL MATTERS

ences show few examples in which the number of jobs supplied by induced industry equaled the number of jobs lost by migration," the report said. "One alternative is to assist, with public support, the training and education of people to seek jobs elsewhere. This means the training in skills as well as the idea of choosing places to go."

But, Saylor points out, communities resist suggestions of relocating their unemployed. Recently, he notes, leaders of the northeast section of the State openly expressed their intention to fight a proposed Federal retraining and relocating program.

"No community wants to be told that it is going down hill and that its people should move elsewhere," he says, "but the fact is that when a community loses an essential source of employment for its people, it will have to readjust to a reduced economic level unless it can develop a new source."

The argument that the fact that a labor supply exists is an attraction to new industry is not always valid, Saylor says, because industry will bring in its own labor if necessary. One of the major factors in industry relocation is the attitude of the leaders and labor in the community being considered.

"Some communities have, frankly, driven industry from their doors because their leaders by one technique or another have harassed the industry," Saylor says. "And when those leaders are trying to attract new industry to the community they have not been realistic enough to make the necessary concessions. It should be remembered that if a community is, in effect, trying to lure a source of employment from some other area, it must have a more attractive offer; it must sell itself."

"Some communities simply have nothing to offer."

Agriculture reports

A total of 12,164 men and women attended conferences conducted by the College of Agriculture during the 1960-61 academic year, a report by Fred C. Snyder, director of short courses for the College, indicates.

In addition, 723 persons attended short courses, ranging from two days to three weeks, and 237 attended winter courses, which were of two-month duration.

The summary shows that of the 117 conferences, held by the various departments of the College, that of FFA activities week in June, attracting 1600, was the largest. There were 22 short courses and eight winter courses.

LEAVES

Dr. Frederick C. Fliegel, assistant professor of rural sociology, from Feb. 16 through Dec. 15, 1962, to give technical assistance on a survey research project and aid in research training of graduate students at the University of Rio Grande do Sul in Porto Alegre, Brazil.

Dr. Robert D. McCammon, assistant professor of physics, for 1962, to study low-temperature solid state physics at the National Standards Laboratory in Sydney, Australia, with a fellowship given by the Commonwealth Scientific and Industrial Research Organization in Sydney.

Dr. R. James Becker, associate professor of farm management extension, from July 1, 1961, through June 30, 1962. He is working for the International Cooperation Administration in Surinam, Dutch Guiana, South America.

Dr. William T. Butz, professor of agricultural economics, from Sept. 25 through March 24, 1962 to work with the Economic Research Service, U.S. Dept. of Agriculture, in Wisconsin, Minnesota, and Michigan.

Richard A. Bailey, associate county agricultural agent, from Sept. 16 through Sept. 15, 1962 to study for a master of science degree at Rutgers University.

APPOINTMENTS

Appointments of the following to the faculty have been announced:

Dr. Forest W. House, professor and chairman of the department of business education at the University of Nebraska, as professor of education, effective Sept. 1. He was granted all three degrees by Ohio State University and has taught in Ohio public schools, at Ohio State and Northern Illinois University.

Everett C. Shuman, former manager of engineering services for the Industrial and Commercial Division, Owens-Corning Fiberglass Corporation, has been named associate professor of engineering research and will supervise the Building Research Program in the engineering experiment department. He is a University of Wisconsin graduate and received his master of science degree at Wisconsin. He has taught there as well as at Armour Institute and Lewis Institute.

Dr. Eric K. Webb has been named visiting professor of meteorology effective from Sept. 16 to Mar. 15. He is senior research officer in the CSIRO Division of Meteorological Physics, Melbourne, Australia.

Dr. Cecil C. Tilley, professor of mineralogy and petrology at the University of Cambridge, England, has been appointed visiting professor of mineralogy and petrology, effective Jan. 1 to May 31.

CHANGES IN POSITION

Robert W. Lange, assistant professor of forestry, has been named resident director of the Mont Alto branch of the School of Forestry. He has been a member of the faculty since 1955.

Rex E. Melton, associate professor of forestry, has been named director of the experimental forest in Stone Valley. He has been a member of the faculty since 1947.

Dr. Henry W. Johnstone, Jr., associate professor of philosophy, has been named acting head of the department of philosophy, effective Sept. 1, filling the position during the leave of absence of Dr. John M. Anderson, who will be at the Free University of Berlin during the coming academic year.

RESIGNATIONS

Resignations of faculty members include the following:

Dr. Converse H. Blanchard, associate professor of physics, to become associate professor and assistant chairman of the department of physics at the University of Wisconsin.

Dr. Yoshiharu Okaya, associate professor of physics, to accept a post with the I.B.M. Research Laboratories, Yorktown Hts., N. Y.

Dr. Richard D. Mathieu, instructor in aeronautical engineering, to accept a position with the Missile and Space Vehicle Division, General Electric Corp., Valley Forge, as research engineer in the Gas Dynamics Group.

Dr. Joseph H. Grosslight, professor of psychology, to become head of the department of psychology at Kent State University.

Dr. Frank J. Sourauf, assistant professor of political science, to accept a position in the department of political science at the University of Minnesota.

News —

(Continued from page one)

will meet Sept. 8-10 to see the University's mineral collections, inspect research and teaching facilities, and conduct two field trips in the State College area.

Dr. Thomas F. Bates, professor of mineralogy is coordinator of the conference; Dr. Richard H. Jahns, chairman of the division of earth sciences, will address the Society at its banquet, and David E. Snell, curator of the Mineral Industries museum, will conduct the field trips.

➤ **CALENDAR:** The Official University Calendar for the Fall, Winter and Spring Terms is as follows:

FALL TERM, 1961

Sept. 17-23 — Orientation Week
20-23 — Registration
25 — Classes begin, 8 a.m.
Nov. 23 — Thanksgiving Day recess
Dec. 7 — Classes end 9:55 p.m.

WINTER TERM, 1962

Jan.. 3-4 — Registration
5 — Classes begin, 8 a.m.
March 17 — Classes end, 12:25 p.m.

SPRING TERM

March 26-27 — Registration
28 — Classes begin, 8 a.m.
April 22 — Easter Day recess
June 8 — Classes end 9:55 p.m.
9 — Commencement

NO ISSUE

There will be no issue of the Faculty Bulletin for the next two weeks. The next issue will appear Friday, Sept. 15.

Items of interest

Articles and Papers

- BLACKADAR, A. K., meteorology, a paper at the International Symposium on the Fundamental Problems of Turbulence and their Relation to Geophysics at Marseilles, France, on the subject of "Vertical Distribution of Wind and Turbulent Exchange in a Neutral Atmosphere."
- BRANDOW, G. E., agricultural economics, a paper titled, "the Shapelessness of Farm Policy," at the annual meeting of the American Farm Economics Association.
- BOWHILL, S. A., electrical engineering, a paper in the July issue of the Journal of Atmospheric and Terrestrial Physics, on "Rocket Measurements of F-Layer Electron Density and their Interpretation."
- DRAPER, A. B., and KNAPPENBERGER, H. A., industrial engineering, a paper on "Median Grain Size Effect on Green Sand Properties" in the August issue of Modern Castings.
- HOOGENBOOM, ARI, history, an article on "Pennsylvania in the Civil Service Reform Movement" in the publication, Pennsylvania History.
- HUTTON, H. K., education, an article in the August issue of the American Church News, reviewing a biography of Cyril Lucaris, titled "Protestant Patriarch" by G. A. Hadjiantoniore.
- IWAND, THOMAS, economics, an article in the June issue of the Journal of General Education, on "God in the Marxist System."
- JORDAN, JOSEPH, chemistry, two papers at the International Congress of Pure and Applied Chemistry, on "Thermochemistry of Precipitation Processes and Liquid Structure in Molten Nitrates," and "Identification of Active Electrode Sites by Contact Autoradiography."
- KLEIN, P. A., economics, an article in the May issue of The Quarterly Review of Economics and Business on "A Critique of Contemporary Institutionalism."
- DE LISSOVOY, VLADIMIR, child development and family relationships, a paper on "Head Banging in Early Childhood" in the June issue of The Journal of Pediatrics.
- MCGEARY, M. N., political science, an article on "Pinchot's Contributions to American Forestry" in the summer issue of Forest History.

- MUAN, ARNULF, metallurgy, a paper on certain aspects of equilibria studies of the manganese oxides at the International Congress of Pure and Applied Chemistry.
- MUELLER, E. W., physics, a paper at the International Congress of Pure and Applied Chemistry, on "Field Induced Reactions."
- PANOFSKY, H. A., meteorology, a paper on "Budget of Kinetic Energy in the Surface Layer" at the International Symposium on Turbulence at Marseilles, France.
- PEIKERT, F. W., agricultural engineering, a paper on "The Influence of Soil Moisture Plant Relationships on Irrigation Practices" at a meeting of the North Atlantic Section of the American Society of Agricultural Engineers.

The Arts

- YEATON, KELLY, theatre arts, direction of the play, "Thieves Carnival" for the Stadium Theatre at Ohio State University.

Elected and Appointed

- BRANDOW, G. E., agricultural economics, named president-elect of the American Farm Economics Association.
- DRAPER, A. B., industrial engineering, elected vice president, Basic Concepts Committee, Sand Division, American Foundrymen's Society.
- MACKENZIE, OSSIAN, Business Administration, named chairman of the Standards Committee of the American Association of Collegiate Schools of Business.
- SHUMAN, E. C., engineering experiment, appointed to second three-year term on the Administrative Committee on Papers and Publications of the American Society for Testing Materials.

Lectures and Talks

- DOMIBROSKI, J. A., housing and food services, a talk on "Getting Help or How to Recruit Food Service Personnel" at the annual meetings of the Association of College and University Housing Officers at Columbia University.
- NICHOLS, E. J., English, a talk on "Reynolds at Gettysburg," at the Fourth Annual Civil War Study Group, Gettysburg College, July 31.
- WILLIAMSON, M. A., Engineering and Architecture, a talk on Penn State research at the NATO-sponsored Underwater Seminar at the University of London, London, England.

faculty BULLETIN

Vol. 49, No. 8

Aug. 25, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Peace Corps notes

Today (Friday, Sept. 15) is the last day of training for the 150 Peace Corps trainees, with no special program planned. The group will board buses to go to Washington, D. C., en route to their homes for a short visit before reporting to the Philippines for further training.

Of those who began the training here seven weeks ago, six resigned for personal reasons, several were ruled out for medical reasons, and the remainder were to be informed of their status after the evaluations were completed. A battery of academic, psychological, physical, and mental tests aided in the evaluations, as did reports of the faculty.

After additional training in the Islands, the volunteers will take up positions in smaller towns and barrios in the Visaya area.

Meanwhile 25 men, about half of the next Peace Corps contingent to be trained at Penn State, have been in training at Rio Abajo, Puerto Rico. They will spend most of the month at the camp and come directly to the campus for the beginning of classes Sept. 29. Others will join them here.

Seven elementary school teachers who served as discussion leaders in the Program were commended for their work by Dr. Paul Bixby, director, who said that their contributions had been substantial. Those commended included Miss Kay Long, Mrs. Bessie Dumm, Mrs. Doris Bany, Mrs. Margaret Cronemiller, Mrs. Clements Flenner, all of the College Area Schools, and Mrs. Eva Shoemaker, Huntingdon, and Mrs. Queen Weaver, Tarboro, N. C.

► **CITATION:** The Nittany Lion Inn has been cited by the Duncan Hines Institute for "excellence in service and hospitality over a span of 25 years." The award, which went also to 12 other Pennsylvania hotels and restaurants, was presented at the 19th annual Duncan Hines Family Dinner in Chicago. The winners were praised for "good food and good lodging" and "the extra personal touch."

► **RARE EARTHS:** The Molybdenum Corporation of America has provided a grant to the department of mineral preparation for a study of "rare earths," elements in metal alloys. Among the rare earths being studied are cerium, praseodymium, neodymium, and gadolinium, mined in Mountain Pass, California. Dr. David R. Maneval, research associate of mineral preparation, is in charge of the project.

► **RARE BOOKS:** A collection of first editions assembled by the late Abby A. Sutherland, which had been located at the Ogontz Campus, has been added to the Rare Book Room collection.

Miss Sutherland was president of the Ogontz School from 1913 until 1950, when the property was presented to the University to become one of the Commonwealth Campuses.

► **PERSONNEL:** Robert W. Dombrowsky will supervise the division of personnel records and procedures of the department of personnel services — employee relations, and will be assisted by Mrs. Edith H. Anderson. Dombrowsky has been training coordinator of the department and will continue as part of his new duties the responsibilities for the training program. Mrs. Anderson has been administrator of academic personnel records.

The new division will maintain personnel records of both academic and non-academic employees and process personnel actions, such as appointments, promotions, leaves, etc.

► **FILMS:** A film titled "Les Vacances de M. Hulot" (Mr. Hulot's Holiday) will be shown Tuesday, Sept. 19 at 8 p.m. in Room 209 Home Economics South. This is the first of seven French films sponsored by the NDEA French Institute. Other films will be shown on Wednesdays. The public is invited.

► **MAIL:** Wilbur F. Diehl has been named supervisor of mail and telephone service of the University. He has been supervisor of telephones and will continue in that responsibility. Requests for information concerning mail service should be directed to him

at UN 5-8311 by phone, or the Telephone Bldg. by mail.

► **FOOTBALL:** The U.S. Naval Academy has announced that 300 midshipmen will accompany the Navy football team to University Park for the game at Beaver Stadium Sept. 23. The eight buses will bring the Brigade Staff, Drum and Bugle Corps, Color Guard, and one company of midshipmen.

► **NEW PROGRAM:** A two-year associate degree program in chemical technology will begin at Wyomissing Center this fall to meet industry's rapidly expanding need for trained chemical technicians.

Concentrated instruction and practical experience in applied chemistry and chemical engineering will be provided. Wyomissing will be the only Campus or Center offering the program.

► **EXHIBIT:** Luminescence in minerals is featured in a new exhibit in the Mineral Industries Museum, on the first floor of the M.I. building. Many different kinds of luminescence are demonstrated in the exhibit, including tribo-luminescence, thermo-luminescence, and electro-luminescence.

► **AFRICAN.** S. P. Madete, of Tanganyika, will begin classes as a freshman in the College of Business Administration in the Fall Term. He is one of 91 African students in this country under the sponsorship of the International Cooperation Administration, the Department of State, the African-American Institute, and the African Scholarship program of American Universities. Others are enrolled in 57 colleges and universities throughout the country.

The African students have taken a six-weeks orientation program at the University of Pennsylvania and Lincoln University, preparing themselves by writing papers, taking mock examinations, and attending lectures, tours, seminars, and visits to homes in the Philadelphia area.

► **RECEPTION:** New students and their parents will attend a reception and open house sponsored by campus religious organizations Sunday, Sept. 17 from 9 a.m. to 5 p.m. at the Helen Eakin Eisenhower Chapel.

Purpose of the event is to give new students an opportunity to meet the personnel and learn about the program of the Chaplain's office and of the various religious organizations.

Additional social hours for new students will be held from 7 p.m. to 8:30 p.m. at the centers of the various religious organizations.

ITEMS OF INTEREST

Articles and Papers

- DEASY, G. F., geography, a paper on "Pennsylvania's Bituminous Coal Strip Pits as Sites for Sanitary Landfills" at the annual meetings of the Association of American Geographers.
- DUNNE, H. W., veterinary science, with Kradel, D. C., Solorzano, R. F., and Michel, R. L., on "Infectious Pustular Vulvovaginitis in a Pennsylvania Dairy Herd" in the August 1961 issue of Veterinary Medicine.
- FERGUS, C. L. with BONNER, R. D., botany and plant pathology, a paper on "The Influence of Temperature and Relative Humidity on Growth and Survival of Silage Fungi" in the September issue of Micologia.
- FORD, D. H., and URBAN, H. B., Division of Counseling, a paper on "Man, a Robot or a Pilot" at the American Psychological Association Meeting in New York.
- GERHOLD, H. D., forestry, a paper at the Ninth Northeastern Forest Tree Improvement Conference, on "Testing White Pines for Weevil Resistance."
- GOLATZ, HELMUT, industrial relations, an article titled "Spotlight on Depressed Areas" in the Sept. 9 issue of "America."
- GRIESS, PHYLLIS R., geography, a paper on "Pennsylvania's Anthracite Waste Lands as a Potential Tourist Attraction" at the 57th annual meeting of the Association of American Geographers.
- HALE, E. B., animal behavior, a paper on perceptual aspects on behavior in bulls at the International Ethological Conference at Starnberg, Germany.
- KAKIMOTO, HARUTOSHI, mechanical engineering, a paper on "Swirl and Combustion in Divided Combustion Chamber Type Diesel Engines," at meetings of the Society of Automotive Engineers in Milwaukee.
- LUMLEY, J. L., engineering research, a paper at the International Colloquium on The Mechanics of Turbulence at the Faculty of Science and the Institut de Mechanique Statistique de la Turbulence, Marseille, France, on the subject, "The Mathematical Nature of the Problem of Relating Lagrangian and Eulerian Statistical functions in Turbulence."
- MARKHAM, J. W., journalism, a paper on "The Effect of the Thaw and Its Aftermath on the Soviet Press," at the annual meeting of the Association for Education in Journalism.
- MCCARTHY, R. D., dairy science, a paper on "Fatty Acid Metabolism in the Ruminant" before the International Conference on the Use of Radioisotopes in Animal Biology and the Medical Sciences, Nov. 21-Dec. 1 in Mexico City.
- MEYER, W. E., mechanical engineering, a paper on "Small European Engines, Status and Recent Developments" at the meetings of the Society of Automotive Engineers in Milwaukee.
- MUELLER, E. W., physics, at the 8th Field Emission Symposium, Williams College, with Young, R. D., on "Progress in Field Emission Work Function Measurements on Atomically Perfect Planes."
- with Sinha, M. K., on "Mobility of Point Defects in Tungsten" and "Field Emission Microscopy of Rhenium-Molybdenum Alloys."
- with Nishikawa, Osamu, on "Determination of Work Function from Field Evaporation Data."

- PATTON, STUART, and FLIPSE, R. J., dairy science, an article on "A Palmitaldehyde-rogenic Substance in Bovine Sperm Lipids" in the Journal of Dairy Science.
- SCHEIN, M. W., animal behavior, a paper on imprinting and species identification of turkeys at the International Ethological Conference at Starnberg, Germany.
- PRYBYLA, J. S., economics, an article on "The Soviet Consumer in Khrushchev's Russia," in the July issue of The Russian Review.
- an article in the July issue of Management, Auckland, New Zealand, on some problems of international mobility of labor.
- RYBA, E.E., metallurgy, a paper at the 10th annual Conference on the Applications of X-Ray Analysis on the subject of temperature effects on x-ray behavior.
- SNYDER, W. U., Psychology Clinic, a paper on clinical psychology, at the American Psychological Association meetings in New York.
- YASHIRO, YUZO, physics, a paper at the 8th Field Emission Symposium, on "Etching of Tungsten Tips."
- WILSON, G. L., engineering research, an article on "Effect of a Longitudinal Static Pressure upon a Magnetostrictive Ferrite" in the August issue of the Journal of the Acoustical Society of America.

Lectures and Talks

- JAHSNS, R. H., earth sciences, a talk on "Gem-bearing Pegmatites of Southern California" at a meeting of the Mineralogical Society of Pennsylvania.
- JORDAN JOSEPH, chemistry, a talk on "Voltammetry and Electrode Kinetics of Divalent Silver" at the meetings of the American Chemical Society in Chicago.
- MCKINLEY, D. H., Business Administration, a talk on "The Business Outlook for the Balance of 1961" at a meeting of the Sunbury and Selinsgrove Rotary Clubs.
- MUELLER, E. W., physics, a talk at the Eighth Field Emission Symposium, Williams College, on "Twenty Five Years of Field Emission Microscopy."
- ZELKO, H. P., speech, a talk on "Communication in Research Organizations at Dupont," at the annual summer conference of the National Society for the Study of Communication.

Honors and Awards

- WYAL, F. B., Air Force ROTC, awarded the Air Force Commendation Medal for meritorious service as Politics Military Affairs Officer, Foreign Agreements Division, HQ USAF, contributing significantly to rational security particularly in the fields of disarmament and nuclear testing cessation.

Elected and Appointed

- DECKER, W. S., marketing, appointed to the Committee on the Teaching of Sales Management of the American Marketing Association.
- TAFT, R. W., JR., chemistry, named to the Petroleum Research Fund Advisory Board of the American Chemical Society.

Publications

- COUCH, H. B., plant pathology, a book entitled "Diseases of Turfgrass" by Reinhold and Co., New York, scheduled for late fall publication.
- WEIDHASS, E. R., engineering graphics, the book, "Creative Problems in Engineering Graphics" published by McGraw-Hill.

Personnel matters

DEATH

- Elizabeth M. Miller, assistant professor of secretarial science and a member of the faculty since 1947, died after a long illness Sept. 4.

RETIREMENTS

- Dr. Albert H. Holtzinger, associate professor of chemistry and director of the Chemical Laboratories, retired Aug. 31. He is a 1927 graduate of the University and was granted the doctor of philosophy degree in 1939. He taught at the Altoona Campus and Pottsville Center from 1936 to 1940 and at the Mont Alto Forestry School until 1943, when he came to the University Park Campus.

APPOINTMENTS

- ✓ Maj. Samuel B. Adams, Jr., as associate professor of air science.
- ✓ Bruce Barnes, assistant professor of mathematics.
- ✓ Dr. Kenneth E. Beasley, associate professor of political science in the Institute of Public Administration.
- ✓ Arleen Bickel, instructor in mathematics.
- ✓ Edward C. Budd, professor of economics.
- ✓ Eleanor Buntag, instructor in English.
- ✓ John J. Coyle, Jr., assistant professor of business administration.
- ✓ Paul Foreman, professor of sociology and anthropology.
- ✓ Nancy L. Gulliford, instructor in speech at McKeesport.
- ✓ John E. Hagg, instructor in English.
- ✓ David Hayes, instructor in economics.
- ✓ Brian John, instructor in English.
- ✓ William Johnson, instructor in history.
- ✓ Richard Kennington, instructor in philosophy.
- ✓ J. Thomas Kidd, assistant dean of student affairs at McKeesport.
- ✓ Robert G. Kokat, assistant professor of business administration.
- ✓ Oswald LeWinter, instructor in English.
- ✓ Ronald Linker, instructor in history.
- ✓ Nicholas Ochsner, instructor in Slavic languages.
- ✓ Samuel H. Osipow, psychologist, Division of Counseling.
- ✓ Richard R. Parizek, assistant professor of geology and mineralogy.
- ✓ Thomas Price, instructor in English, Hazleton campus.
- ✓ Matthew Proser, instructor in English.
- ✓ Albert Rabenstein, assistant professor of mathematics.
- ✓ Hugo Ribeiro, associate professor of mathematics.

(Continued on page four)

Calendar announced

The University Calendar for the Summer 1962 through Spring 1963 terms, as approved August 10, 1961 is as follows:

SUMMER TERM, 1962

June 18 —Monday — Orientation
19 —Tuesday — Registration
20 —Wednesday — Classes begin, 8 a.m.
July 4 —Wednesday — Recess
Aug. 29 —Wednesday — Classes end, 9:55 p.m.
Sept. 1 —Saturday — Commencement

FALL TERM, 1962

Sept. 16-22—Sunday to Wednesday — Orientation
19-22—Wednesday to Saturday noon — Registration
24 —Monday — Classes begin, 8 a.m.
Nov. 22 —Thursday—Thanksgiving Day
Dec. 3 —Monday — Classes end, 9:55 p.m.
8 —Saturday — Commencement

WINTER TERM, 1963

Jan. 3-5 —Thursday to Saturday noon— Orientation and Registration
7 —Monday — Classes begin, 8 a.m.
Mar. 16 —Saturday—Classes end, 12:25 p.m.
16 —Saturday — Commencement

SPRING TERM, 1963

Mar. 25-27—Monday to Wednesday — Orientation and Registration
28 —Thursday — Classes begin, 8 a.m.
Apr. 14 —Sunday — Easter Day Recess
June 5 —Wednesday — Classes end, 9:55 p.m.
8 —Saturday — Commencement

(Note: Classes which would have met Wednesday, July 4, 1962 will meet according to schedule on Wednesday, Aug. 29, 1962. Classes which would have met Thursday, Nov. 22, 1962, will meet according to schedule on Monday, Dec. 3, 1962.)

Self evaluation

The department of petroleum and natural gas engineering will inaugurate the University's program of self-evaluation when a team of "outside" specialists will visit the department Sept. 16-18.

Evaluators will present written and oral reports on their observations and these, together with the department's own appraisal, will be used to determine "the professional merit of what we are doing; and if what we are not doing is not good, to find out how we can improve it," as President Walker has expressed the purposes of the study.

Oct. 16-18, the departments of Geography and of Sociology and Anthropology will be evaluated, the latter including rural sociology, a part of the Department of Agricultural Economics and Rural Sociology.

The Department of Chemical Engineering will be visited Nov. 27-29.

No new projects

THE University announced yesterday that it would undertake no new projects until its financial position was substantially improved.

President Walker said rising costs, plus the University's inability to obtain increased aid from the State, necessitated drastic action to forestall financial difficulties.

He explained that the approximately one million dollars derived from the latest tuition boost will be used almost exclusively to close the competitive gap in faculty salaries.

The action was based on a Board of Trustees ruling that "until the financial ability of the University to meet its normal operating expenses has been substantially improved . . . no new endeavors requiring additional money will be undertaken unless they are fully covered by additional money."

President Walker said the action means that pending proposals useful to Pennsylvania agriculture and industry will have to be postponed; proposed new continuing education programs will have to be shelved; and more and more Pennsylvania students will have to be turned away for lack of money with which to hire teachers.

At the legislative session just ended, Penn State's appropriation remained at the same level it had been for the last two years.

Graduate lectures

Three lectures in the Graduate School Lecture Series have been announced for the Fall Term. They are:

Thursday, Oct. 12 — Dr. Harry F. Harlow, professor of psychology, University of Wisconsin, on "Mother Love among the Primates."

Thursday, Nov. 2 — Dr. H. V. Wiseman, senior lecturer in government, Leeds University, England, on "Constitutions: Are They Exportable," with special reference to African nations.

Thursday, Dec. 5 — Dr. Edward Rosenheim, professor of English, University of Chicago, and currently distinguished visiting professor, on "Anger as a Fine Art."

All lectures will be given at 8 p.m. in Room 121 Sparks.

Air ROTC Note

Basic course changes for Air Force R.O.T.C. are contained in the Faculty Bulletins for June 9 and June 16. Advisors who wish additional information should call Major Thomas, University 5-7011.

Artists Series

Two performances of Henrik Ibsen's "Hedda Gabler," starring Anne Meacham, will open the 1961-62 Artists Series Saturday, Oct. 7 at 3 p.m. and 8:30 p.m. in Schwab Auditorium.

The complete program will include 13 performances by individuals or companies, concluding April 27 with Isaac Stern, noted violinist. Other dates include the following:

Friday, Oct. 13 and Saturday, Oct. 14 — Micheal Mac Liammoir, in "The Importance of Being Oscar."

Sunday, Oct. 29 — American Ballet Theatre.

Sunday, Nov. 5 — Rosalyn Tureck, pianist.

Sunday, Nov. 12 — Bayanihan Philippine Dance Company in Philippine Folk Dances.

Sunday, Nov. 19 — Baltimore Symphony Orchestra, with Eric Friedman, violinist.

Friday, Jan. 12 — Janos Starker, cellist.

Thursday, Jan. 18 — I Musici, string orchestra.

Saturday, Jan. 27 — The Cleveland Playhouse in Sean O'Casey's "Pictures in the Hallway", at 3 p.m. and 8:30 p.m.

Sunday, Feb. 4 — Modern Jazz Quartet.

Wednesday, Feb. 28 — The Netherlands Chamber Choir, with Felix de Nobel, conductor.

Saturday, Mar. 10 — Pierrette Alarie, soprano, and Leopold Simoncau, tenor.

Saturday, Mar. 31 — The Pittsburgh Symphony Orchestra, with William Steinberg conducting.

Friday, April 27 — Isaac Stern.

Broadcast

An original selection, titled "Credo", by University organist George E. Ceiga will be broadcast nationally on Sunday by the radio network of the National Broadcasting Company on the program "Great Choirs of America."

The University Choir, under the direction of Mrs. Willa Taylor, will perform the work. Passages for a brass choir are directed by Rex Rockwell. The work was presented originally by the Choir at the 1958 Easter Service in Schwab Auditorium.

Station WMAJ in State College will tape the program for presentation at 12:45 p.m. The program is normally carried at 8:05 a.m.

Television

The Federal Communications Commission has denied a petition by the University for assignment of VHF television channel 3 (see Faculty Bulletin, March 10, 1961).

Denial of the petition was based on FCC code on minimum separation distances between television transmitters. Nine similar applications in other parts of the country were also denied.

University personnel are continuing to explore the possibility of a channel for an educational television station in this area.

Personnel matters —

(Continued from page two)

Thomas Rogers, assistant professor of English.

Stanley J. Shepherd, assistant professor of physics, Altoona.

Jerome Singer, assistant professor of psychology.

Joseph William Smith, instructor in engineering.

Peter B. Steese, instructor in English.

W. Taylor Stevenson, instructor in religious education.

Alan Z. Trachtenberg, instructor in English.

George Tsoumis, assistant professor of wood technology.

Robert B. Wenger, instructor in mathematics, McKeesport.

David Westby, assistant professor of sociology.

Lt. Col. Felix B. Wyal, associate professor of air science.

RESIGNATIONS

Dr. Barkev Y. Bakamjian, asst. prof. of physics, Sept. 30 to accept position as mathematician with the Schlumberger Well Surveying Corp.

Dr. Ralph L. Baker, prof. of marketing in agricultural economics, Sept. 30 to teach at Ohio State.

John R. Bilder, instructor in English at Ogontz Campus, to teach at Georgetown University.

James W. Burden, instructor in music, to teach in the Pennsbury public school system.

Allen F. Dill, associate professor of architectural engineering in the Shelter Research Project, to become research assistant in the department of civil engineering, University of Illinois.

Joseph L. Hayden Jr., assistant professor of ornamental horticulture extension, to accept a position with the

Pennsylvania Department of Forests and Waters.

Joseph S. LeDonne, instructor in engineering at McKeesport, to devote full-time to a position as president of a building construction company.

Anthony J. Mastro, associate professor of accounting, to study for his doctorate at Michigan State and to teach at Albion College.

Richard W. Stanley, instructor in dairy production, to accept a position in the department of animal science at the University of Hawaii.

Dr. M. Jerome Weiss, assistant professor of education, Sept. 30 to accept a position with Jersey State College.

Examination

Graduate students who are planning to take the written foreign language reading examination at the next scheduled time, October 9, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows: By making an appointment at Room 227 Sparks Building for the German oral tests, which are to be given Sept. 20-23, and at Room 300 Sparks Building for the French and Spanish oral tests, also to be given Sept. 20-23.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on October 9 no later than September 25 in Room 227 Sparks Building for German, Room 246 Sparks Building for English, and Room 300 Sparks Building for French and Spanish.

TRAFFIC

Faculty and staff members are urged to remain off the campus Sunday, Sept. 17, unless on urgent business to avoid adding to the traffic confusion likely when 5,000 new students arrive, most of them with parents.

CALENDAR

Friday, Sept. 15

Student Encampment meets at University Park campus.

Saturday, Sept. 16

Student Encampment

Sunday, Sept. 17

Orientation Week activities begin.

Receptions for new students by the several religious organizations.

Monday, Sept. 18

President's Convocation for new students, 9 a.m., Recreation Building.

Tuesday, Sept. 19

French film, "Les Vacances de M. Hulot," sponsored by the NDEA French Institute, 8 p.m., Room 209 Home Economics South.

Wednesday, Sept. 20

Fall Term registration begins, continues through Saturday, Sept. 23, at noon.

Saturday, Sept. 23

Football, versus Navy, 1:30 p.m.

Sunday, Sept. 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

University Christian Association Open House, 2-4:30 p.m.

Monday, Sept. 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. John J. Reed, chief petrologist, New Zealand Geological Survey, on "Geological and Petrographic Problems in New Zealand."

Classes begin at 8 a.m.

Traffic committee

Dr. Randall S. Stout, professor of public finance, has replaced Harold P. Zelko, professor of speech, as a member of the Faculty-Staff Traffic Review Committee. Zelko served as chairman of the committee for several years.

Current chairman of the Committee is Dr. Kinsley R. Smith, professor of psychology. Frank J. Simes, dean of men, is the third member.

faculty BULLETIN

Vol. 49, No. 9

Sept. 15, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS. T. I. MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Centennial

THE University will cooperate in a number of ways in the observation of the Centennial of the Morrill Act during the current academic year, Reed Ferguson, chairman of the University's Centennial Committee, has announced.

Also members of the Committee are Dr. H. R. Albrecht, Dr. Paul W. Bixby, James H. Coogan, Eugene H. Goodwin, E. L. Keller, and Ridge Riley.

Working without funds, the Committee is cooperating with many departments to bring to the attention of the public the purposes of the Land Grant Act and the accomplishments of the colleges and universities which were established as a result of the passage of the act.

President Abraham Lincoln signed the Morrill Act into law July 2, 1862. Activities during the academic year by the American Association of Land-Grant Colleges and State Universities will be directed to developing a public understanding of the Land-Grant philosophy and identifying the future responsibility of the Land-Grant institutions.

Locally, the University will observe the Centennial in the following ways:

1. The Centennial seal or a statement will appear in all University publications.
2. A display will be developed for the Pennsylvania Farm Show at Harrisburg, in January.
3. The State Museum will feature

(Continued on page two)

NEWS IN BRIEF

► **METEOROLOGY:** Donation of radar equipment by the U. S. Army Signal Supply Agency will make possible intensive studies of the motion and nature of cloud particles which in turn may suggest improved methods of cloud seeding, according to Dr. Charles L. Hosler, head of the department of meteorology. The radar equipment, which has an estimated value of \$100,000, will be used to monitor clouds on a continuous basis and permit observations about the size and distribution of precipitation particles in the cloud.

► **LUNCHEON:** The first meeting of the Faculty Luncheon Club for the Fall Term will be held Monday, Sept. 25 at 12:30 p.m. in the Hetzel Union Building dining room "A." Dr. George A. Guthrie, assistant director of the Peace Corps program on campus, will discuss the program. Newcomers to the faculty are especially invited to attend. Lunch is cafeteria style.

► **TROUBLE:** A series of noontime meetings sponsored by the Friends Peace Committee will be initiated Thursday, Sept. 28, at 12:30 p.m. in the Memorial Lounge of the Helen Eakin Eisenhower Chapel. Dr. Peirce F. Lewis, assistant professor of geography, will speak on "The European Frontier in Russian Foreign Policy." The series is titled "World Trouble Spots." Coffee will be served at 12 noon and a light lunch is available for those who cannot bring their own.

► **LANGUAGE:** The regular written Foreign Language Examinations will be held Monday, Oct. 9 at 7 p.m.; those in German in 121 Sparks, in French and Spanish in 10 Sparks, and those in English in 205 Sparks. The conflict exam in French and Spanish will be given Tuesday, Oct. 10, at 7 p.m. in 9 Sparks.

► **EXHIBIT:** The first exhibition of the year by the School of the Arts is currently on display in the main galleries of the Hetzel Union Building and will remain until Oct. 2. Titled "Professors as Art Collectors," the show contains paintings loaned by faculty members of the School, and also drawings, original prints, ceramics, and sculpture.

► **RUSSIA:** Dr. George B. Cressey, Maxwell professor of geography at Syracuse University, will lecture on "How Strong is Russia," at 8 p.m., Thursday, Oct. 5, in Room 121 Sparks Building, sponsored by Phi Beta Kappa and the department of geography. He will appraise the assets and limita-

tions of location, land, and minerals as they relate to Russia's national strength.

► **FOOTBALL:** Telecasts of the Penn State-Miami football game will be shown to students and faculty this evening in Recreation Building and Schwab Auditorium, using the closed-circuit system and the Eidophor screen. This is the first time the University has utilized the available facilities for this purpose. Game time is 9 p.m. Tickets were available this week for reserved seats in Schwab and general admission in Recreation Building.

► **FOOTBALL:** Youngsters may attend the Penn State-Navy game tomorrow for the small sum of \$1 for an end zone seat, if any tickets remain. They went on sale Wednesday morning at 249 Recreation Bldg.

► **PEACE CORPS:** The second group of Peace Corps volunteers will begin training on the campus Sept. 29. The ten-week program will prepare them for assignments in the Philippine Islands. Previously, a group of 150 volunteers underwent a seven-week program and are now awaiting assignments. Among those in the new group of 53 or more to be in training during the Fall Term are 11 from New York State and 9 from California. Two are from Pennsylvania. They will be housed in Graduate Student Housing, three to an apartment.

► **MEETING.** The first meeting of the faculty of the College of the Liberal Arts for the Fall Term will be held Thursday, Sept. 28, at 3:55 p.m. in Room 121 Sparks.

Telephone data

A new faculty-staff telephone directory information form has been developed and was distributed recently to departments for use in reporting a variety of data.

The form, which is in triplicate, has space for all the information used in the directory, including, name, office and home telephone numbers, office and home addresses, title, and marital status.

In addition to its use for the directory, the forms are valuable to the chief operator and to the department of public information in their work.

Commencement

The 1961 Fall Term Commencement has been scheduled for Saturday, December 9, at 10:30 a.m. in Recreation Building.

Television feature

"Family Closeup — 1961" is the title of a television show prepared by the College of Home Economics for presentation over station WFBG-TV, Altoona, Channel 10, every Monday, Wednesday, and Friday from 9 to 9:30 a.m. until December 2.

The initial program, Sept. 25, will feature Dr. Vladimir de Lissoyov, associate professor of child development and family relationships. He will discuss his research on head banging in early childhood.

Wednesday, Sept. 27, Dr. Winona Morgan, Mrs. Naomi L. Naylor, and graduate assistant Mabel Anderson will discuss their experiences with the children of migrant workers in Pennsylvania and the needs of the children.

Dr. Albert E. Siegel, associate professor of child development, will discuss children and television on the program of Friday, Sept. 29.

Other programs in the series will include such subjects as the changing role of fathers, problems of older adults, ways to defeat fatigue in the home, equipment servants, and others.

Personnel matters

DEATHS

Peter W. Knepp, instructor of industrial engineering, died Sept. 9, at the age of 62. A two-year agriculture student in 1917-18, he returned to the campus in 1923 as mechanic and in 1926 was named instructor.

Retirement

Verna M. Criss, Berks County home economist, retired July 31 after 27 years of service. A graduate of Drexel Institute of Technology, she taught in high schools in Pennsylvania and California and was a tearoom manager before joining the staff in 1934. She was awarded a Superior Service Award of the U.S. Department of Agriculture in 1956 and in 1951 was awarded the certificate of recognition for outstanding service by the National Home Demonstration Agents' Association.

Appointments

Ben Amato, instructor in physical education.

John Bedford, instructor in engineering.
Phyllis Dorman, instructor in physical education.

Margaret Fringer, instructor in physical education.

William Ginoza, associate professor of physics.

Angela Jeannet, assistant professor of Romance languages.

E. Arthur Hungerford, assistant professor of speech.

Edward Lukanuski, instructor in engineering, DuBois.

Robert Mittenhuhler, instructor in German.

Players program

William Saroyan's "The Cave Dwellers," will open the 1961-62 program of the Penn State Players at Center Stage, beginning Oct. 27 and 28 and continuing for five more weekends, concluding Dec. 2. Director will be Kelly Yeaton.

Four other plays will be presented during the year, two others at Center Stage and two in Schwab Auditorium.

At Center Stage, beginning Jan. 12 and continuing through Feb. 17 the Players will present either Peter Shaffer's "Five Finger Exercise" or "The Fantasticks," by Tom Jones and Harvey Schmidt, directed by Robert Reifsneider.

The third Center Stage show will include "Man of Destiny," by George Bernard Shaw, and "Krapp's Last Tape," by Samuel Beckett, both one act plays and directed by Warren Smith.

Centennial—

(Continued from page one)

faculty and student art in a January exhibit.

4. Postage meters on campus are being equipped with the Centennial seal.

5. The Penn State-California football game will be dedicated to the Centennial and appropriate ceremonies are planned.

6. A large sign has been erected under the scoreboard at Beaver Stadium to proclaim the Centennial year.

7. Television and radio programs are contemplated.

8. Two movies produced by the University have been converted to call attention to the Land-Grant celebration. Both, incidentally, won prizes from the American Public Relations Directors Association.

9. Brochures for enclosure in mail are being prepared.

10. Wherever possible, public events on campus will be tied in with the Centennial theme.

The U.S. Information Office has prepared a movie which will be distributed throughout the world, in 33 languages. Some of the scenes were shot at Penn State, with University personnel in important roles.

The Committee urges faculty members and students to recognize the celebration and to refer to it wherever convenient to do so.

Nationally, the first formal Centennial event will be a convocation in Kansas City, Mo., Nov. 12 to 16. In addition to speeches, reports of study groups and evaluations by educational authorities on the work being done by Land-Grant institutions will be given.

Both Schwab Auditorium productions will be given in 1962. Walter H. Walters will direct either Agatha Christie's "Witness for the Prosecution" or Thornton Wilder's "The Matchmaker," February 8, 9, and 10.

"Once Upon a Mattress" by Jay Thompson, Marshall Barer, and Dean Fuller, with music by Mary Rodgers and directed by Ellis Grove, will conclude Players' program for the season May 10, 11, and 12.

For the first time, Players will offer a season ticket. The book will contain five tickets, priced at \$4 per book, and the tickets may be used for five different shows or all five at any one performance, or in any combination the patron chooses to use the tickets.

The books are now on sale and may be obtained by mail from the Department of Theatre Arts, Schwab Auditorium, University Park, Pa. Checks should be made payable to The Penn State Players.

Radio broadcasts

A radio series titled "Passport," featuring University faculty members, has been released to radio stations in Pennsylvania for use as desired. The five-minute news-type taped shows are being carried by many of the larger stations in the Commonwealth, including KDKA, in Pittsburgh, which is presenting the program nightly on its "PM" Show, between 8 and 10 p.m.

More than 50 faculty members tell of their experiences abroad on the shows. Among those whose programs are already recorded are the following:

Australia — W. J. Crocker; **Belgium** — Robert M. Pockrass; **Bolivia** — Frederick B. Marbut; **Burma** — George A. Theodorson; **Denmark** — George F. Johnson; **Ecuador** — Joseph V. Allesandro; **England** — Marjorie East, Robert D. Reifsneider, and Willa C. Taylor.

Europe — Henry A. Finch and Vaclav Mares; **Formosa** — S. Lewis Land; **France** — Carl F. Barnes, Jr.; **Germany** — R. Wallace Brewster, Ernest H. Freund, Leslie P. Greenhill, Luther H. Harshbarger, and Werner F. Striedieck; **Ghana** — Miriam E. Lowenberg and Theodore Braun; **India** — Charles M. Freeman and Robert E. Swope; **Indonesia** — James F. McDivitt.

Italy — Sidney A. Bowhill, Haskell B. Curry, and Alfred A. Triolo; **Japan** — George E. Murphy; **Korea** — Robert T. Oliver; **Lebanon** and **Syria** — Frank Anthony; **Mexico** — Walter Coutu; **Philippines** — Russell B. Dickerson; **Portugal** — Gerald M. Moser; **Russia** — Jessie Bernard, Rustum Roy, Martin W. Schein, and Edward C. Thaden.

South Africa — Clifford C. Wernham; **South Vietnam** — Jerome K. Pasto; **Tangiers** — Aaron Druckman; **Venezuela** — William H. Gray; **Yugoslavia** — William M. Mench and John D. Ridge.

The program will be carried locally Monday through Friday, starting October 2, on the combined WDFM-WMAJ network program at 9 p.m.

CALENDAR

Saturday, Sept. 23

Football, versus Navy, 1:30 p.m.

Sunday, Sept. 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain, "To Enlighten the Mystery of Existence."

University Christian Association Open House, 2-4:30 p.m.

Monday, Sept. 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. John J. Reed, chief petrologist, New Zealand Geological Survey, on "Geological and Petrographic Problems in New Zealand."

Classes begin at 8 a.m.

Faculty Luncheon Club, 12:30 p.m. HUB dining room "A". Dr. George Guthrie, assistant director of the Peace Corps program, will discuss the program.

Thursday, Sept. 28

Meeting of the faculty of the College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Friends Peace Committee series on "World Trouble Spots," 12:30 p.m., Chapel Lounge. Dr. Peirce F. Lewis, geography, on "The European Frontier in Russian Foreign Policy." Coffee at noon.

Television listings

The following television broadcasts from or concerning the University have been listed for the week of Sept. 25:

HOME ECONOMICS

WFBG-TV, Altoona, 9 a.m.

Monday — Dr. Vladimir de Lissovoy, on head banging in early childhood.

Wednesday — Dr. Winona Morgan, Mrs. Naomi L. Naylor, and Mabel Anderson, on children of migrant workers.

Friday — Dr. Alberta E. Siegel, on children and television.

FARM, HOME, AND GARDEN

WFBG-TV, Altoona, 12:30 p.m.

Monday — Harold Lockhoff, on hay shows.

Tuesday — Sam Guss, "Call Your Veterinarian."

Wednesday — Russell Seward, on forage testing.

Thursday — Glenn Zepp, on rat control.

Friday — Thomas Kelly, on farm insurance.

Home Ec cafeteria

Patrons of the food service in the College of Home Economics in the cafeteria and Maple Room are advised that a different schedule will be followed than in previous years. During the Fall Term, only dinner with table service will be available in the Maple Room, Monday through Friday, 5:15 to 6:30 p.m. Opening date is Wednesday, Sept. 27.

Luncheon will be served in the cafeteria only in the Winter and Spring terms, Monday through Friday. No luncheon service will be available during the Fall Term and no dinner service will be provided in the Winter and Spring terms.

SENATE MINUTES

ANNUAL REPORTS

Rules Committee

The Rules Committee of the Senate has met during the Academic Year 1960-61 to handle the following items of business.

1. Modification of the By-Laws of the Senate to change and extend the times of meeting.

2. The addition of a Library Committee to the standing committees of the Senate.

The Rules Committee proposed a number of changes in the Senate Regulations for Undergraduates.

1. Modification of most Senate Regulations for Undergraduate students to adapt these formally to the term system.

2. Referral of Rules requiring substantive changes to appropriate Senate Committees.

3. Consideration of the format of the Senate Regulations to adapt it to include policy statements, rules applying to students on all campuses, and rules applying to students on particular campuses only.

J. M. Anderson, *Chairman*

Committee on Faculty Affairs

The main topic of discussion by the Committee during the past year has been the (long delayed) matter of setting up an adequate facility for use as a Faculty Club.

This is a complex problem that includes the following component parts:

(1) Are faculty interest and need sufficient to justify the construction and operation of a Faculty Club?

(2) If the answer to (1) is in the affirmative, what is the most suitable location for a Faculty Club?

(3) If the answers to (1) and (2) are known, assuming that (1) is favorable, the construction of a Faculty Club, of adequate elegance and utility to provide exceptional facilities not now available, will obviously require a fairly large sum of money (perhaps, \$250,000), and the question then is: "Who shall provide this money?"

(4) The matter of the extent of University support of existing faculty clubs at Universities comparable to Penn State, and the matter of Club dues at these Institutions has received some survey by the Committee.

On the basis of Committee opinion, and the opinions of many other faculty, we are now prepared to make a definitive proposal for positive action to the University Administration. This proposal attempts to resolve all four problems listed above, and, if approved by the Administration, will be set in motion as soon as possible.

The other problem receiving study is the matter of a more adequate retirement plan, particularly with respect to vesting. This is now under study by Profs. M. East and J. H. Ferguson.

Leo H. Sommer,
Chairman

Committee on Athletics

During the 1960-61 academic year the Senate Committee on Athletics met as a unit on six different occasions and on three additional occasions with the Athletic Advisory Board in order to evaluate matters under its jurisdiction. The Committee reported to the Director of Athletics the ineligible list of athletes in each freshman and varsity sport as per Senate and National Collegiate Athletic Association Rules. The Committee approved athletic schedules and established a policy for handling intercollegiate athletics at the Commonwealth Campuses. The Commonwealth Campus programs will be admin-

istered by the Director of the Commonwealth Campus or a representative designated by Kenneth Holderman.

Approval was granted the Penn State Golf team to participate in the first (fall) Eastern Collegiate Athletic Conference golf tournament. In November the Committee approved the football team's participation in the Liberty Bowl provided the team, coaches, and administration gave their consent.

After the deletion of the "K" Rules by the Senate eliminating the excused absence, the Committee decided to issue a "memo" to the student certifying that he had been off campus on a University approved athletic trip — as a matter of information. Administrative changes were made to adjust the four term plan to the National Collegiate Athletic Association and Eastern Collegiate Athletic Conference rulings. A change in "X-1" Rule as recommended informally to the Rules Committee of the University Senate was approved by the Senate. Recommendations were made to the Director of Athletics stating the maximum number of contests to be scheduled in each sport during the year, exclusive of post season events.

Herman Weber, President of the Senior Class and Varsity track letterman, was awarded the Eastern College Athletic Conference merit medal. The award recognizes the student who best combined scholarship with athletics during the year.

Once again the Committee wishes to thank Mrs. Alice Royer and the Senate Secretariat for their assistance.

R. H. Wherry,
Chairman

Office changes

A number of departments and activities have been relocated on the University Park campus in recent weeks. They are listed below for convenience, along with their new locations and current telephone numbers:

Accounting Studies — Graduate Hall (formerly in Armory); 5-2586.

Collegian — Sackett, basement, north wing; 5-2531.

Correspondence Instruction — Engineering "C"; 5-5403.

Director, School of Arts — Room 221 Home Economics; 5-2591.

Latin American Education Project — Engineering "E", second floor; 5-4032.

Liberal Arts offices (those formerly in Old Armory and McAllister Hall — Engineering "E", third floor; 5-2085 and 5-2402.

La Vie — Engineering "D", second floor; 5-2751.

Mail Directorizing Service — Room 116 Graduate Hall; 5-5281.

Management Engineering — Rooms 102 and 103 Graduate Hall; 5-7104.

Mathematics — McAllister Hall, second and third floors; 5-7527.

Music and Music Education — Armory; 5-5489.

Peace Corps — Engineering "E", second floor; 5-7609.

Public Safety — Engineering "C", second floor; 5-2581.

Football traffic plan

FACULTY and staff members planning to attend the Penn State-Navy football game tomorrow at Beaver Stadium are urged to allow plenty of time to reach the parking areas near the field if they plan to drive.

William C. Pelton, director of the department of security and head of the Football Traffic and Parking Committee, which includes Borough and State officials, points out that the game will attract a record crowd and many more cars than for any previous home game.

Locally, traffic will be routed to the Stadium parking areas via Park Ave. and by University Drive. Those coming from out of town will use these approaches as well as Porter Road, the road east of the Stadium which on the north connects with the Buffalo Run Road and south of the Stadium connects with Rt. 545 to Bellefonte.

No campus roads will be useful in reaching parking areas near the Stadium since Curtin Rd., the only internal approach, will be closed to all vehicular traffic.

If convenient, local fans are urged to walk to the game to avoid the traffic congestion. There is no provision in the traffic plan to permit private cars to discharge passengers at the Stadium, but local buses and taxis will be permitted to do so.

Traffic originating south of Foster Ave. and east of S. Atherton St. as well as that originating south of Westerly Parkway and west of Atherton St. should use S. Pugh St. or S. Garner St. to Foster Ave. and University Drive.

Traffic originating between W. College Ave. and Westerly Parkway, west of S. Atherton St. should use W. College Ave., N. Atherton St. and Park Ave.

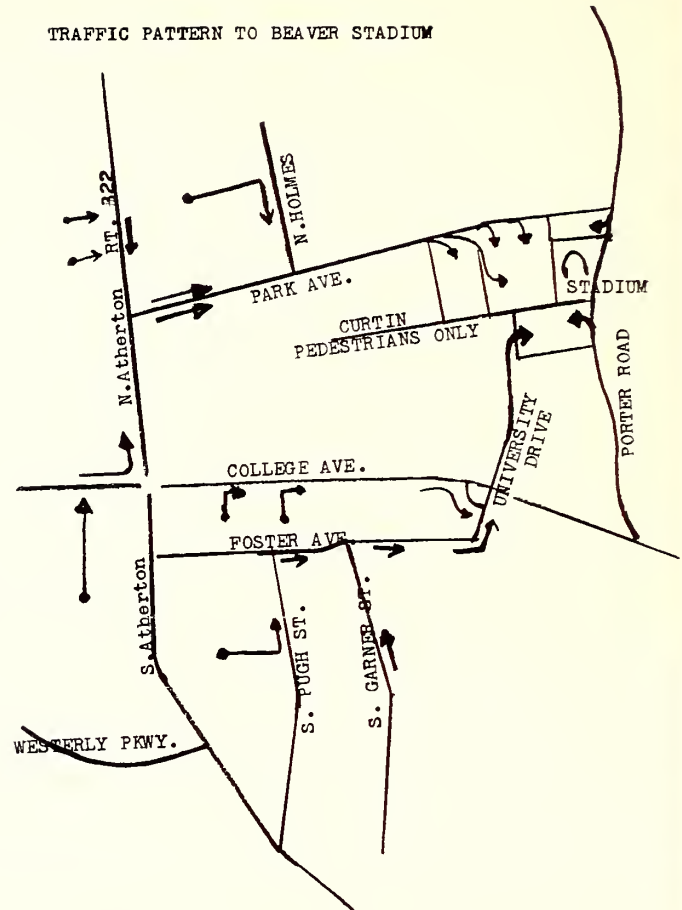
Traffic originating between Foster and College Aves. east of Atherton St. should use College Ave. to University Drive.

Traffic coming from the College Hts. section west of Atherton St. should use Atherton St. to Park Ave.

Those driving from the College Hts. section east of Atherton St. should go to N. Homes St. and south to Park Ave. where a policeman will be stationed to control traffic.

Cars using Park Ave. will use two lanes east before the game and west after the game. Those planning to park in the unreserved area should remain in the south lane. Cars bearing reserved-space stickers may use either lane.

TRAFFIC PATTERN TO BEAVER STADIUM



After the game, traffic will be directed to leave by the same route it used to get to the parking areas.

The Committee which planned the pattern included, in addition to Pelton, Burgess Roy D. Anthony, Borough Manager Robert Y. Edwards, and Borough Engineer Donald Dorneman, Sergeant Jerome Wychulis of the State Police, and Paul Pearson and Edward Czekaj of the University staff. The Committee asked that comments regarding the plan be directed to Pelton as soon as possible in the following week.

faculty BULLETIN

Vol. 49, No. 10 Sept. 22, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Chess develops

Faculty and student interest in chess, showing great development in the past few years, will undoubtedly be stimulated further with the arrival on campus of one of the "masters" of the game.

Donald Byrne, new instructor of English, has been named coach of the Penn State Chess Team, which has been remarkably successful in recent years in collegiate competition.

A player since the age of seven, Byrne was listed by the U.S. Chess Federation as "master" in 1959, his last year of active play, rated third behind Bobby Fischer and Sam Reshevsky. Since then he has been teaching at Valparaiso University and has restricted his play to "friendly" games.

Among Byrne's honors over the years are the following:

1944-48 — member of the championship Brooklyn Technical High School Chess team.

1946 — Fourth in the U.S. Open Championships, his first year in the tournament.

1947 — Second in the Havana International Invitational Tournament.

1948 — Member of the ten-board U.S. team which played a radio chess match with Argentina.

1948-52 — Member of the Yale University team, while earning bachelor's degree in English literature and philosophy.

1952 — Third in U.S. Open, going undefeated.

1953 — Won U.S. Open at Milwaukee.

1954 — Member of an eight-board U.S. team that played the U.S.S.R. team in New York. Received special prize for best score by U. S. player and "brilliance prize" for one game against the then U.S.S.R. champion, Y. Averbach.

1955 — Member of the eight-board U.S. team that played U.S.S.R. team in Moscow.

(Continued on page three)

On the record

The Penn State Blue Band, directed by James W. Dunlop, and the Penn State Glee Club, with Frank Gullo directing, are featured on a new 12-inch, long-play record produced by alumni Jay Levin and Herman Walzer.

Now on sale locally at the HUB desk and at the music department office in the Armory, the record costs \$5 plus tax for monophonic and \$6 plus tax for stereophonic reproduction. If ordered through the Alumni Association, for direct mailing, an additional charge of 35 cents is required.

The album was made from new recordings, done during the summer at the State College High School Auditorium. Recording sessions lasted all day for the two groups but, reports Levin, the high quality of the performances was manifested throughout the entire recording period and it was difficult to make a final selection of the songs to be featured on the record.

The Glee Club selections include the familiar Penn State songs plus such favorites as "Rolling Down to Rio," "Song of the Open Road," and "Laughing," which has always been a favorite of the Glee Club audiences.

Among the Blue Band selections are the Entry March, which was written by James M. Burden, former instructor in music here, the Block M Concert March, and "Rhumbango."

Profits from the sale of the records will go to the department of music scholarship fund. The initial pressing was made of 5,000 records.

A four-color portfolio jacket features Old Main in color, the words to Penn State songs, and histories of the University and the Glee Club and Blue Band.

Aid to English

The Department of English has received an "Aid to Education" departmental assistant grant of \$1,000 from Gulf Oil Corporation in recognition of the instruction in letter and report writing given by William A. Damerst, assistant professor of English, at the company's Philadelphia Refinery in the summers of 1959 and 1960.

H. R. Timms, manager of employee relations of the Philadelphia Refinery, presented the grant to McKay Donkin, vice-president for finance and treasurer of the University, earlier this month.

The grant is considered unusual in that it is the first time the company has made such a grant for a department in the liberal arts.

Peace Corps

Dr. Paul W. Bixby, assistant dean for Continuing Education in the College of Education who has been director of the Peace Corps program on campus since its inception in the spring, has left for a six-week period of service in the Philippine Islands to set up a continuing program of training for the volunteers at the University of the Philippines.

In addition, he will do some preliminary work related to the follow-up research to be undertaken to evaluate the trainees and the training program, and will interview school teachers who are eligible for graduate assistantships at the University. The Peace Corps contract provides for six such assistantships.

The second contingent of volunteers begins its ten-week training program today. Dr. George M. Guthrie, associate professor of psychology and assistant director of the program, will be in charge of the program during Dr. Bixby's absence.

During the Winter Term Dr. Guthrie will undertake an evaluation of the trainees and the program.

In other developments, Dr. C. O. Williams former assistant to the president for special services who retired in June, has been named by the Peace Corps to act as consultant to the Penn State program.

Literature on TV

In cooperation with the National Education Television and Radio Center and WFBG-TV, Altoona, Channel 10, the University has begun a new series of television programs titled "American Perspective."

The programs are televised every Tuesday and Thursday at 9 a.m.

Dr. Graham C. Wilson, professor of Renaissance literature at San Jose State College, discusses the subject of the problems with which American literature has tried to deal. American relationships with people in foreign countries are examined and our definition of the American hero is explored.

The series concludes November 30.

ENROLLMENT

A total of 17,084 students were enrolled by last Saturday noon on the University Park campus, contrasted to a total of 15,741 at a corresponding time last year. The ultimate official enrollment at University Park last year was 16,091.

Enrollment at Commonwealth Campuses reached 3,528, a gain of 221 over last year at the same time.

News in Brief

➤ **HOUSEMOTHERS:** A number of housemothers for fraternities are needed for non-resident work largely over weekends, according to the office of the Dean of Men. The hours of work are Friday from 8 p.m. to 1 a.m. and Saturday from 8 p.m. to 1 a.m. and occasionally Wednesday nights. Salary is approximately \$1.25 per hour.

Applications should be addressed to the Office of the Dean of Men, 109 Old Main, University Park, Pa.

➤ **ORIENTATION:** A 20-minute color slide presentation explaining the services and workings of the University library system was used during Orientation Week to help new students to become acquainted with the library quickly and easily.

Produced by Wendell S. MacRae, assistant to the curator, the presentation includes 64 color slides which supplement the script also written and narrated by MacRae.

Departments having further use of the presentation may contact MacRae at 5-7731.

➤ **LUNCHEON:** As a convenience to football fans a pre-game luncheon service has been opened in the new East Halls dining commons every Saturday of a football game at Beaver Stadium. Lunch will be served cafeteria-style from 11:30 a.m. to 12:45 p.m. in dining room "C" of the new commons.

➤ **BALLET:** The American Ballet Theatre, which will be featured on the Artists Series on Oct. 29, will be seen tonight on NBC-TV on the Bell Telephone Hour.

➤ **ARTISTS:** Two showings of Dylan Thomas' "Under Milk Wood," now concluding a successful run at the off-Broadway Circle in the Square theatre, will open the 1961-62 Artists Series Saturday, October 7. The play will be given at 3 p.m. and 8:30 p.m. in Schwab Auditorium, and tickets to the general public will go on sale Thursday, Oct. 5, at the HUB desk.

Originally a production of Henrik Ibsen's "Hedda Gabler" was to open the season but the entire tour of the company has been cancelled.

➤ **WELCOME:** The annual tea and welcome for international students sponsored by six University and Community organizations will be held Sunday, Oct. 1 at 3 p.m. in the Helen Eakin Eisenhower Chapel Lounge.

➤ **SENATE:** The University Senate will meet Tuesday, Oct. 3, at 3:55 p.m. in Room 121 Sparks.

UCA drive to be conducted by mail

The annual faculty-staff membership drive and fund raising campaign of the University Christian Association will be conducted entirely by mail this year.

Campaign materials will be received via campus mail during the first week of October. Campus personnel will receive a canvassing letter, a first class reply envelope, and a folder describing the work of the University Christian Association.

Goal for financial contributions is \$3,300, announces Earl B. Stavely, professor emeritus of electrical engineering, campaign chairman. Last year's income from faculty and staff was \$2,829.

"Each person interested in the U.C.A.'s continuing program and ministry will carry the responsibility of making his or her own return," chairman Stavely points out.

In addition to fund raising, the campaign is designed to acquaint University personnel with the work and purposes of the U.C.A. and to offer faculty and staff the opportunity of becoming members of the Association. says the Reverend Sam N. Gibson, Executive Director.

"Our program can be effective only insofar as there are faculty and staff members who understand what we are trying to do and who are willing to give of their advice, time, and experience," he states.

Mr. Gibson describes the U.C.A. as "the avenue through which eleven member church agencies work on the

campus." Operating funds come from denominational foundations, boards, synods, conferences, or national agencies representing member churches. However, over half of the operating funds come from individual contributions.

The U.C.A. places its primary emphasis on program for and ministry to the 15,000 undergraduates. Through voluntary courses in religion, services of worship, lectures, retreats and conferences, service projects, study groups and personal counseling, the U.C.A. provides opportunities for students to grow in their faith.

Members are drawn from the total University community and the U.C.A. is pledged to serve the entire on-campus community.

The program for faculty and staff under the leadership of the U.C.A. Faculty Committee has been enlarged in recent years. It features week-end conferences, Saturday Forums with visiting lecturers, seminars in theology and ethics, and presentation of papers by Penn State faculty.

The University provides office and meeting space for the U.C.A. in the Eisenhower Chapel, but does not contribute to the operation budget.

This will be the 86th year of operations for the U.C.A. on campus. The year's budget is \$49,816.

Governor signs construction bill

Building projects totalling more than \$16,000,000 have been authorized for the University by the General State Authority in the passage of a bill boosting the borrowing limit of the Authority.

Gov. David Lawrence on Saturday signed the measure which had been passed by the 1961 legislature.

Sixteen projects are included for the University for which a total of \$16,004,747 has been authorized. Five of the projects are for the planning of future facilities while the other eleven are for construction of new buildings or additions or alterations to existing buildings.

The program for the University includes:

1. Construction of Life Sciences Bldg., Unit 1, \$2,179,593.
2. Convert and renovate Armsby, Patterson, Weaver and McAllister Bldgs., \$1,073,640.
3. Relocation and expansion of Agricultural Facilities, including Sheep Barns and Beef Cattle Barns, \$1,154,775.

4. Construction of Service and General Stores Bldg. on periphery of campus, probably near Beaver Stadium, \$2,067,500.

5. Planning and Design for Completion of Willard Bldg., \$120,575.

6. Construction of Extension for Physical Education Bldg., extending main unit to west, \$1,619,127.

7. Alterations to Home Economics Bldg., \$326,866.

8. Construction of additions to utilities, including water storage facilities, boilers at Power Plant, and underground utility services, \$2,690,138.

9. Planning and Design of Forestry Center, \$60,750.

10. Construction of Computer Facilities Center, Unit 1, \$721,197.

11. Planning and Design of Physical Education Bldg., final unit, \$110,500.

12. Construction of Extension Conference Center, \$2,273,004.

13. Planning and Design for Completion of Library, \$115,050.

14. Planning and Design of Physical Sciences Bldg., \$89,375.

15. Conversion of Service Bldg. to Laboratories and Classrooms, \$279,093.

16. Construction of Education and Psychology Center, Unit 2, near Unit 1 now under construction on former Beaver Field, \$1,123,564.

CALENDAR

Friday, September 29

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Dr. G. W. Brindley, head, department of ceramic technology, on "Crystallographic Aspects of Some Solid State Reactions."

Saturday, September 30

Square dance, sponsored by the Graduate Student Association, for faculty and graduate students, HUB ballroom, 9-12 p.m.

Sunday, October 1

International Student tea and welcome, 3 p.m., Helen Eakin Eisenhower Chapel main lounge, sponsored by six University and Community organizations.

Protestant Service of Worship, 9 a.m., The Chapel. Rev. Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Huston Smith, professor of philosophy, Massachusetts Institute of Technology on "The Incredible Assumption."

Monday, October 2

Faculty Luncheon Club, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. Carroll D. Champlin, professor emeritus of education, on "Tito's Yugoslavia." (Purchase tickets at the HUB desk.)

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. W. Jaunzemis, on "Introduction to the Viscoelasticity Seminar" and P. W. Hill on "Index Notation."

Tuesday, October 3

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Alexei A. Maradudin, research laboratories, Westinghouse Electric Corp., on "Lattice Anharmonicity and Optical Absorption in Polar Crystals."

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Thursday, October 5

Talk, sponsored by Phi Beta Kappa and department of geography, by Dr. George B. Cressey, Syracuse University, on "How Strong is Russia," 8 p.m., Room 121 Sparks.

Friday, October 6

Biophysics Seminar, 11:10 a.m., 301 Walker Lab. Dr. Kenneth S. Cole, National Institutes of Health, on "Electric Models for Cells and Axons."

Television listings

(The following television broadcasts from or concerning the University have been listed for the week of Oct. 2)

HOME ECONOMICS

WFBG-TV, Altoona, 9 a.m.

Monday — Dr. Winona L. Morgan and Dr. Marjorie East, on working mothers.

Wednesday — Dr. Irene Harms, on "A Child's Development."

Friday — Dr. C. B. Broderick, on new research data on dating.

FARM, HOME, and GARDEN

WFBG-TV, Altoona, 12:30 p.m.

Monday — John Holbert, on soil test week.

Tuesday — A. J. Gianfagna and A. H. Bauer on glads and dahlias.

Wednesday — Janet Tritt, on 4-H in winter.

Thursday — Jane Marhefka, on provisions for 14 days.

Friday — Gray Mattern, on concrete on the farm.

SENATE MINUTES

ANNUAL REPORTS

Educational Policy Committee

The Educational Policy Committee met 25 times during the period October 1, 1960 to May 31, 1961. In addition, the committee was divided into special subcommittees for preliminary work on several matters, both groups meeting several times in separate sessions. Dean Merritt A. Williamson's group did the preliminary work on general education requirements for the associate degree and planning for a study of the objectives of the University. Dr. Robert K. Murray's group investigated the problem of credit loads. The previously appointed subcommittee on "Improvement of Instruction" continued its activities during the year.

The policy matters considered during the year are summarized below:

A. *Compulsory R.O.T.C.* In response to a resolution from the Liberal Arts faculty calling for voluntary R.O.T.C., the Committee informed the Senate at its meeting of November 3, 1960, of its study of this matter for President Walker in early 1960. Based on this study, the Committee stated that its position was in favor of no change in University policy on R.O.T.C. See Faculty Bulletin 11-11-60.

B. *The University Library.* As a result of a resolution from the Liberal Arts faculty requesting that the Educational Policy Committee study the University Library situation, the Committee recommended to the Senate on November 3, 1960, that a new standing Committee on the University Library be established in the Senate. This recommendation was adopted by the Senate. See Faculty Bulletin 11-11-60.

C. *Policy on Class Attendance.* With the abolition of the "K" rules on September 29, 1960, it became necessary to establish a policy concerning class attendance for the guidance of students and instructors. The policy for class attendance proposed by the Committee was adopted by the Senate on November 3, 1960. See Faculty Bulletin 11-11-60.

D. *The Definition of and General Education Requirements for the Associate Degree.* In view of comments from the Middle States Association, the Committee conducted a general study of the associate degree programs at Penn State. At the February 9, 1961, meeting of the Senate, the Committee presented a definition of associate degree programs at the University and recommended the inclusion of 21 credits of general education work in all associate degree programs. An amended definition of associate degrees was passed by the Senate, and the recommendation of 21 credits of general education content was accepted. See Faculty Bulletin 2-24-61. Since there still appeared to be a lack of clear understanding of associate degree programs, President Walker at the May 4, 1961, Senate meeting charged the Committee with the responsibility of defining all types of associate degree programs that might be offered at the University. See Faculty Bulletin 5-12-61.

E. *Improvement of Instruction.* A report prepared by the subcommittee on Improvement of Instruction concerning final examinations in the new term system and the establishment of new comprehensive examinations for all undergraduates was presented as an informational report to the Senate at the April 6, 1961, meeting. See Faculty Bulletin 4-21-61. The subcommittee has also submitted a report to the Committee recommending greater use of credit by examination.

F. *Term Loads and Total Graduation Credit Requirements.* As requested, the Committee presented to the Senate on May 4, 1961, its recommendation concerning normal credit loads under the term system. This report recommended that the University minimums and maximums should be 8 and 13 credits for individual terms and 124 and 150 credits for 12 term baccalaureate programs. These limits were approved by the Senate. See Faculty Bulletin 5-12-61.

The Educational Policy Committee has also considered the following: prerequisites for 400 courses and course numbering with the Courses of Study Committee; revision of Rule E-3 with the Academic Standards Committee; residence requirements with the Continuing Education Policy Committee; organization and objectives of the University with the University Development Committee in preparation for the next Middle States Association visitation; and, a review of the status of common freshman year programs.

The Chairman wishes to acknowledge the very active support of every member of the Committee and, in particular, the continued work of Professor C. N. Thiel in his capacity as Committee Secretary. Also, the Chairman wishes to thank the subcommittee on Improvement of Instruction for their continued enthusiasm and the tasks they have accomplished. The Sub-Committee was saddened by the death of its chairman, Lawrence L. Werboff, in January. Professor Ralph E. Armington served ably as chairman for the remainder of the year.

John J. Schanz, Jr., *Chairman*

Chess —

(Continued from page one)

Won "brilliance prize" for game against E. Geller, then U.S.S.R. champion.

1955 — Third in U.S. Open.

1957 — First in Western Open Championship at Milwaukee.

1957 — Third in the U.S. Open behind Bobby Fischer and Albert Bisguier, both of whom are currently playing in the International Championships in Yugoslavia.

1958 — Tied for fourth in U.S. Invitational Chess Championships.

It is Byrne's hope not only to build a strong chess team at the University but to stimulate further the interest among students and faculty members.

"The Chess Club, to which faculty and staff members and graduate students may belong, is an opportunity for good competition and to learn more about the game," Byrne points out. "It meets every Wednesday at 7 p.m. in the HUB card room."

He hopes also to get back into the game "professionally" at least on a limited basis and has already taken steps to enter the U.S. Open competition.

Byrne points out that the balance of power in the U.S. chess world, once concentrated in New York and the east coast is gradually shifting westward and it is the developing interest at such universities as Penn State and Michigan which is helping to accomplish the shift.

Players of all degrees of skill, including beginners, are welcome at Chess Night at the HUB.

NSF Fellowships

The Graduate School Office requests advisers of outstanding seniors and graduate students to call to the students' attention that application materials should be secured at once for the National Science Foundation Cooperative Graduate Fellowships for 1962-63. *Complete application materials must be in the office of the dean of the graduate school of the student's choice by November 1, 1961.*

The Foundation plans to award approximately 2,500 fellowships in science for 1962-63, apportioned between its "Cooperative" and regular "Graduate" fellowship programs in such a manner that individuals of comparable ability receive awards in each program. A recipient of a Cooperative Fellowship receives a stipend of \$2400 for 12 months, a grant-in-aid to cover all tuition, and if his department chooses to and has available funds, is permitted to receive an additional stipend at a rate not to exceed \$1000 for 12 months.

In accord with the law creating these fellowships, recipients are selected solely on the basis of ability, as indicated by academic records, recommendations, and Graduate Record Examination scores. A special Graduate School committee selects those to be recommended to NSF. This year we may recommend in rank order, 57 applicants (last year it was 43). Then the applications of all applicants, whether recommended or not, are sent to Washington. There all applications are re-evaluated by a panel of scientists chosen by the National Academy of Science-National Research Council, which assists the Foundation in screening applicants. In the three years of the program Penn State has been awarded 54 of these fellowships (13 to 21 per year).

NSF fellowships are available in the biological, engineering, mathematical, medical (not for M.D.), and physical sciences, anthropology, economics (excluding business administration), geography, history and philosophy of science, psychology (excluding clinical), and sociology (excluding social work). Also included are interdisciplinary fields such as, biophysics, geochemistry, and meteorology.

In order to save work for both students and faculty, students coming to the Graduate School Office, 101 Willard, for application materials are asked to bring a written statement from their department head to the effect that the department will support the

application. (This is not a letter of recommendation, but just a brief note to indicate departmental willingness to recommend the student.)

The NSF older, regular Graduate Fellowship Program, in which the student applies directly to NSF and picks his own graduate school, may be better for the married man *with dependents*, since it has dependency allowances for wife and children. Announcements will be out in October and applications will be due in Washington by January 1, 1962. As mentioned in paragraph two, these fellowships apparently will not be harder to get.

NSF will again offer summer fellowships to students who have been teaching assistants for at least one academic year (3 Penn State terms), teaching or assisting in teaching duties at least 8 hours per week. An instructor who is a graduate student might also be eligible. An applicant may not apply for more than one NSF fellowship for the same period of tenure. However, if he has been, or will have been by June, a teaching assistant for 3 terms, he could apply for a Summer Fellowship for Former Teaching Assistants for the Summer of 1962 and also apply for one of the academic year fellowships, the latter not to start before September 1, 1962 and to end August 31, 1963. This year we may recommend as many Summer Fellowship applicants as our local committee considers qualified.

Application materials for the Cooperative and the Summer fellowships are available at the Graduate School Office, 101 Willard. Students should get busy at once. Eligible departments who did not receive the Cooperative announcement circular directly from NSF last summer, should phone Mrs. Johnson at the Graduate School Office for a copy (UN 5-6323). Copies of the Summer fellowship announcement were sent to department heads by the Graduate School Office, July 24. If there are further questions, call the Graduate School Office and ask for Mr. VanOrmer.

Drop-add Reminder

The Registrar wishes to remind the faculty of the change in the Senate rules on dropping and adding courses to a student's schedule. Rule J-3 now reads:

A student may not add a course to his schedule after the first ten calendar days of

a term. A student may drop a course after the first ten calendar days of a term only upon written approval of the student's dean. Such authorization shall be given only under extraordinary circumstances; unsatisfactory scholarship in itself will not be considered an extraordinary circumstance.

Cressey to speak

Under the Visiting Scholar Program of Phi Beta Kappa and with the joint sponsorship of the department of geography, Dr. George B. Cressey, Maxwell professor of geography at Syracuse University, will speak at 8 p.m., Thursday, Oct. 5, in Room 121 Sparks.

He will talk on "How Strong is Russia," appraising the assets and limitations of location, land, and minerals as they relate to Russia's national strength.

Dr. Cressey has, in the course of his professional work, visited 75 countries on five continents. He has written extensively, including the books, "Asia's Lands and Peoples" and "Crossroads: Land and Life in Southwest Asia."

Items of interest

Arts

PHILLIPS, MATTHEW, Ogontz, on leave, two monotypes purchased by Rosenwald Galleries, Jenkintown, for permanent collection.

VAN DOMMELEN, DAVID, home art, exhibit of 22 wall hangings in the Montclair Art Museum, Montclair, N. J., during September. During Oct. and Nov., the same exhibit at the Tennessee Fine Arts Center, Cheekwood, Nashville, Tenn., in a one-man show.

Publications

JACKSON, D. N., psychology, a research monograph, "Personality Organization in Cognitive Controls and Intellectual Abilities," with R. W. Gardner and Samuel Messick, published by International Universities Press.

SCHAEFER, C. J., industrial education, a revision of the book, "Home Mechanics" with R. E. Smith, Ohio State, published by The Bruce Publishing Co., Milwaukee.

faculty BULLETIN

Vol. 49, No. 11

Sept. 29, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

News in Brief

► **LECTURER:** Dr. Philip L. Walker, Jr., professor of fuel technology and chairman of the Division of Mineral Technology, will begin a 20-lecture tour Oct. 2 at Idaho State College as a national lecturer of the Society of Sigma Xi. He will speak before chapters and clubs of the honorary scientific fraternity and its industrial research affiliate, Research Society of America, on the subject "Carbon — An Old but New Material." Following the tour, which will take Dr. Walker to California and Hawaii, the lectures will be published in *The American Scientist*.

► **PETROLEUM:** The sixth annual Management Conference for oil marketers and their key personnel in the Philadelphia area will be conducted by the Abington office of Continuing Education Services and the College of Business Administration, Oct. 15-17, in cooperation with the Pennsylvania Petroleum Association. Among the speakers will be David H. McKinley, associate dean, College of Business Administration, and Paul S. Beaver, assistant director, special services, Continuing Education.

► **ENGLISH:** Wilfred T. Jewkes, assistant professor of English, will address the first meeting of the English Department Colloquium on "The Literature of Travel and the Mode of Romance in the Renaissance" Tuesday, Oct. 10, at 7:30 p.m. in the Nittany Lion Inn. An open discussion and coffee hour will follow.

(Continued on page three)

Artists Series

The Dylan Thomas play, "Under Milk Wood," which has just concluded a run in the off-Broadway theatre, Circle in the Square, will open the 1961-62 Artists Series tomorrow with performances at 3 p.m. and 8:30 p.m. in Schwab Auditorium.

William Ball directs the play, which is produced by Jose Quintero and Theodore Mann, and includes in the cast David O'Brien, Michael Prince, Janis Young, Paul Milikin, Jenny Egan, Jack Dodson, Margery McDaniel, Stephen Gray, Anita Dengler, and Philip Thompson.

Tickets went on sale to the public yesterday and may be purchased at the HUB desk today also, for either performance. Twenty per cent of the available seats are set aside for the public after an initial student sale. Tickets remaining from public sale are sold to students.

Of the 12 performances in Schwab Auditorium last year, according to Mrs. Nina Brown, administrative assistant for the Artists Series, the public purchased its share of tickets for only four performances, two each by Archibald Mac Leish and Andres Segovia. Of the six performances in Recreation Building, only Marcel Marceau "sold out" the public's share of tickets. Student attendance was good.

Ticket sales are limited to four per customer for programs in Schwab Auditorium and six per customer for Recreation Building shows.

Michael Mac Liammoir will present the second program of the series Friday, Oct. 13, and Saturday, Oct. 14, at 8:30 p.m. in Schwab Auditorium, in "The Importance of Being Oscar."

Tickets for these performances will go on sale to the public at the HUB desk Wednesday, Oct. 11 and continue on sale through Oct. 13.

Harlow lecture

Dr. Harry F. Harlow, professor of psychology at the University of Wisconsin, will speak on "Mother Love among the Primates" at 8 p.m., Thursday, Oct. 12, in Room 121 Sparks.

The talk will open the Graduate Lecture Series for the Fall Term and is co-sponsored by the department of psychology.

A graduate of Stanford University, where he also obtained the doctorate degree, Dr. Harlow has taught at Wisconsin since 1930, with the exception of the period from 1950 to 1952 when he was chief of human resources research for the U.S. Army. He has been editor of the *Journal of Comparative and Physiological Psychology* since 1951.

UCA Forum series

Dr. Joseph Sittler, professor of theology at the University of Chicago Divinity School, will open the 1961-62 University Christian Association Forum Series Saturday, Oct. 14, at 8 p.m. in the Helen Eakin Eisenhower Chapel Lounge.

He will speak on "Worship and Intelligibility."

Currently chairman of the North American Committee on Faith and Order of the World Council of Churches, Dr. Sittler is the author of many books, including "The Ecology of Faith" and "The Structure of Christian Ethics."

Other speakers in the series for the Fall Term will be Dr. David Freedman, professor of Hebrew and Old Testament Literature, Pittsburgh Theological Seminary, Nov. 11; and Dr. Robert Spike, general secretary for Program, The Board of Home Missions of the Congregational and Christian Churches.

Eidophor report

A report by the Division of Academic Research and Services on the first year's experience with Eidophor, the big-screen television projection equipment in Schwab Auditorium using the University's closed-circuit television systems, indicates that teaching with the use of this system is as effective as with regular television sets in a number of smaller rooms.

A second year's experience with Eidophor has been assured, says Dr. C. R. Carpenter, director of DARS, and further studies are underway.

The basic purpose of Eidophor, explains Leslie P. Greenhill, associate director of DARS, is to provide a larger image which can be seen by more persons at one location. In the Schwab Auditorium installation a screen 11 feet by 14 feet was used. The equipment is essentially a special kind of projector for use with television signals. It was invented by a Swiss physicist and is manufactured by a Swiss company.

Zoology 25, taught by Dr. T. H. Cheng, and Accounting I, with Dr. R. M. Colwell, served as courses for comparisons of learning. In addition, Dr. A. H. Reede's Economics 14 class was used, along with Zoology 25, to study student acceptance of the Eidophor method for presenting instruction.

During 1960-61, Eidophor was also used for showing specific demonstrations in a Biological Science course, a General Education course, and for

(Continued on page three)

Continued on page three

Soviet education goals different

EDUCATION in Russia is geared to meet a far different set of goals than is American education, says Dr. Clarence O. Bergeson, associate professor of educational services, and an understanding of these differences is important to those who would change our system to meet the Russian challenge.

"It is necessary to understand, for example," says Dr. Bergeson, "that Soviet planners decide how many scientists, engineers, doctors, and artists the educational system shall develop and the system is geared to producing that many."

"There is a common, basic public education of ten years (seven years in some areas) starting at the age of seven which prepares all pupils alike in the fundamentals of science and mathematics for college or university programs later."

"Overall the educational system is highly specialized; a student is directed toward a heavy concentration in his own field, even more so than in American education."

Mass education in Russia is predicated on Pavlovian theories which deny genetic differences in individuals. Students progress, say Russian psychologists, at different rates because of environment or because they do not all work with the same diligence and energy, not because they have inherited different abilities and intelligence.

"There are not 'gifted' children in the sense we know them," says Dr. Bergeson, "only children who either got better training or who worked harder."

The common mass education system operating under this philosophy makes no provision for unusual talents indicated in the youngster except that the teacher may recognize that certain pupils have advanced more rapidly and encourage them. However, after-school activities give the child a chance to go beyond the relatively restricted formal school program through young pioneers clubs which, although they have indoctrination in Communism as a basic goal, also "broaden" the education of the child.

The heavily academic - orientated programs in the primary and secondary years has been altered since Dr. Bergeson's visit in 1958 with a group of American educators. Shortly after the five-week investigation by the group, Khrushchev announced that an increasing emphasis would be put on "work," meaning physical labor in the factories and on the farms, to round out the educational experience.

"Probably 60 to 80 per cent of the

students entering higher education now have had work experience," Dr. Bergeson says. "One young lady we interviewed had tried to enter the Institute for Foreign Languages and failed the entrance examination. She was advised to get work experience. She hoped to take the language examination again the following year."

The primary and secondary schools in the ten-year program (now being increased to eleven years without adding to the curriculum) rely on the formal daily question-answer method of teaching and grading. The student would have only two examinations in the ten years, the progress otherwise being measured by the daily lessons and the notebooks kept by each student.

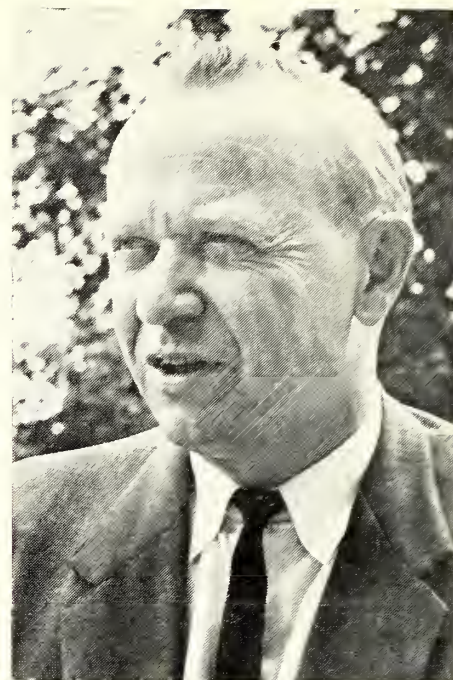
"The grading system was based on 5-4-3-2-1 and a student had to be pretty bad to get a 2," Dr. Bergeson points out. "Failure in too many courses meant failure of the entire year. We were never advised of how many children failed each year or of how many never completed the seven-year or ten-year schools."

"The class sessions were very formal. Sometimes there were lectures and demonstrations to introduce the subject, but usually the teacher taught by asking questions. Homework was important."

"We never saw group discussion. In some subjects there is laboratory experience, wherever possible repeating the experiments of the scientists who discovered the principle being taught. They made practical application of their experience, too, if possible. For example, in electricity they might repair a toaster, although how practical this was we couldn't be sure because virtually no family had a toaster."

Dr. Bergeson was particularly interested in learning about instructional materials, his field of educational speciality. He found that there was apparently little experimenting going on but laboratory equipment was plentiful in some subjects. He was unable to determine how much it was being used.

It was apparent that the Russian people have some objections to their educational system, or at least the way



Dr. C. O. Bergeson

it was being implemented. Complaints from parents and from organizations stressed that the children were being asked to do too much and in the secondary schools they were "tense" from overwork.

"This may be the reason the ten-year program is being stretched to eleven years and the seven-year to eight, although we were never able to ascertain whether the new program permitted deeper study than its predecessor."

Supplementing the formal program in the schools is the after-school activities in the Young Pioneers, which the youngsters love.

"Facilities for crafts, sports, music, etc. were available everywhere," Dr. Bergeson points out. "It is a privilege to belong to the Young Pioneers and most of the children want to belong. In some cases the state has taken over former palaces and converted them for use by Young Pioneers and is doing an outstanding job in providing equipment."

"There are few physical education classes in the schools but in the Young Pioneers the youngster will find every opportunity to develop his skills in sports if he so chooses. There is nothing incompatible about the state giving the youngster the chance to develop this way because it provides him with the chance to do so in other skills or talents."

The Young Pioneers have an implied role in the formal classes, in that if a youngster gets out of line in class he usually answers to the YP. Discip-

(Continued on page four)

CALENDAR

Friday, Oct. 6

Meeting of Pennsylvania Sociological Society, HUB assembly room (also Saturday). Principal addresses at 7:30 p.m.: "Mental Health Research" by Dr. Otto von Mering, University of Pittsburgh, and "Race Relations and Social Change in the Deep South" by Dr. Paul Foreman, department of sociology, Penn State.

Biophysics Seminar, 11:10 a.m., 301 Walker Lab. Dr. Kenneth S. Cole, National Institutes of Health, on "Electric Models for Cells and Axons."

Saturday, Oct. 7

Varsity soccer, 11 a.m., vs. West Chester State College; varsity cross country, vs. Pittsburgh, 1 p.m.

Artists Series. Dylan Thomas play, "Under Milk Wood." 3 p.m. and 8:30 p.m., Schwab Auditorium.

Sunday, Oct. 8

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Patricia Smathers.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. Luther H. Harshbarger, University chaplain. Choir Day, with the combined Chapel Choirs.

Monday, Oct. 9

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Robert E. Swope, associate professor of veterinary science, on "Basic Agricultural Problems in India."

Engineering Mechanics Seminar, 4 p.m., Room 200 Hammond. H. E. Shull on "Kinematics and Dynamics of Continua."

Tuesday, Oct. 10

English Colloquium, 7:30 p.m., Nittany Lion Inn. W. T. Jewkes, on "The Literature of Travel and the Mode of Romance in the Renaissance."

American Society for Metals, Penn State chapter meeting, 7:30 p.m., Mineral Industries Auditorium. Dr. F. Rolf Morral, Cobalt Information center, Battelle Memorial Institute, on "The Physical Metallurgy of Cobalt and its Alloys."

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Emmett Rice, Federal Reserve Bank of New York, on "Some Thoughts on Recent Monetary Problems."

Thursday, Oct. 12

Faculty Women's Club fall reception, Hetzel Union Building, 7:30 p.m.

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. Harry F. Harlow, professor of psychology, University of Wisconsin, on "Mother Love among the Primates."

Physics Colloquium, 4:15 p.m. Room 117 Osmond. Dr. John C. McKelvey, research physicist, Westinghouse Research Laboratories, on "Flux Methods for Carrier Transport Problems and Semiconductor Device Analysis."

Talk by Dr. Hans and Marjorie Freund, on "Contradictions in Berlin." sponsored by Peace Committee, State College Friends Meeting, 12:30 p.m., The Chapel lounge. Coffee served at noon, lunch available.

Friday, Oct. 13

Artists Series program by Micheal Mac Liammoir, in "The Importance of Being Oscar," 8:30 p.m. (also Saturday at 8:30 p.m.)

Meeting of the faculty, College of Agriculture, 3:55 p.m.

Television listings

(The following television broadcasts from or concerning the University have been listed for the week of Oct. 9.)

HOME ECONOMICS

(WFBG-TV, Altoona, 9 a.m.)

Monday — Dr. Vladimir de Lissovoy and Dr. Carlred D. Broderick, on the role of the mid-century father.

Wednesday — Dr. Joseph H. Britton and Dr. James E. Montgomery, on living arrangements for the later years of life.

Friday — Dr. Mary L. Dodds and Dr. Joan Gordon, on research on space foods.

FARM, HOME, and GARDEN

(WFBG-TV, Altoona, 1 p.m.)

Monday — to be announced.

Tuesday — Ralph Patterson, on fire extinguishers.

Wednesday — Robert Kimble, on turkeys.

Thursday — Clair DeLong, on daffodils, tulips, etc.

Friday — Margaret Isenhower, on egg dishes.

News —

(Continued from page one)

► **ALTOONA:** Stanley Shepherd, assistant professor of physics at the Altoona Campus, will present a program of folk music of his native Jamaica at Altoona Sunday, Oct. 8, as part of the Blair County Arts Foundation program. The concert will be given at 3 p.m. in the foyer of the E. Raymond Smith building on the campus.

► **MEDICAL:** Physicians in six cities will attend postgraduate seminars conducted by the University with Jefferson Medical College this year. The seminars provide latest information on medical problems through lectures by members of the Jefferson staff. Seminars will be conducted by Continuing Education Services at the Chambersburg, St. Vincents, Lancaster General, Williamsport, and York Hospitals.

► **LAUNDRY:** Dr. Charles L. Wilbar, Secretary of Health for the Commonwealth, will address the Institutional Laundry Conference Oct. 11 to 13. Nearly 100 laundry supervisors of State institutions will attend the conference, which marks the 25th year that the University has assisted the institutions with their laundry problems. Dr. Joseph F. Krawiec, associate professor of clothing and textiles research, has been associated with the program since it was organized in 1936.

► **TRAFFIC:** For the benefit of faculty and staff members in their planning of operations on the days of Penn State home football games, the Football Traffic Planning Committee points out that at all future games the traffic control system for Beaver Stadium will go into effect at 10:30 a.m.

Eidophor —

(Continued from page one)

lectures in Sociology 1, as well as for showing wrestling and gymnastics competitions and other special events to overflow audiences.

Results of the detailed studies in Zoology 25 and Accounting 1 indicate that there is no significant difference, as measured by examinations, in learning from presentations over Eidophor and those over television sets in smaller rooms. Student reaction favored Eidophor over regular television sets by a considerable margin. The report points out that the availability of Eidophor makes it possible to use a large auditorium for certain kinds of instruction which would otherwise be impractical.

Operation of the unit, reports Dr. Carpenter, was reliable and maintenance was not unusual. Further studies of economic feasibility are necessary, however, and these are being conducted this year.

Children's phys ed

Registration of boys and girls of elementary school age in the physical education activity class conducted Saturday mornings by the faculty of the College of Physical Education will take place Saturday, Oct. 7 (tomorrow) from 8 to 10 a.m. in White Hall.

The classes, which are free, will be conducted by women students majoring in physical education, under the supervision of Della Durant, assistant professor of physical education.

All groups will meet from 9:30 a.m. to 10:30 a.m. every Saturday from Oct. 14 through Dec. 2. Classes will be held for children currently enrolled in grades one, two, three, and four. Parents must provide transportation for their children and are responsible for making certain that they are of sound medical health.

The number to be enrolled is limited by facilities. For further information, call UN 5-7591.

Navy

Twenty-one Navy enlisted men and eight Marines are enrolled in the U.S. Navy Enlisted Scientific Education Program. This is the third year for the program, which provides university education for selected enlisted men and is conducted at 21 universities in the United States. The first graduates from Penn State will receive diplomas in March, 1962. The Navy initiated the program to meet the demand for qualified personnel trained in science, engineering, and other fields.

Soviet —

(Continued from page two)

line in the classroom is seldom a problem for the teacher.

Many of the teachers are married women and in fact so are many administrators, but the situation has less to do with the desire to have women per se be more active in the social structure than for the very practical need for workers. The Soviet Union lost many men in World War II; the slack must be taken up in virtually every occupation by women.

"It was interesting to us that school administrators at various levels are not necessarily trained in pedagogy," Dr. Bergeson says.

The group which Dr. Bergeson accompanied was concerned essentially with education on the primary and secondary level but inevitably the question of higher education arose in connection with what happens to those who complete secondary school work.

"Of course many will go to a university, usually for five years of highly specialized professional work. There is none of the American type of liberal arts education.

"In recent years there has been increasing importance attached to the polytechnic education, which is a return to the type of school which dominated the Soviet educational system in the 'twenties. But the desire for more polytechnic instruction should not be considered surprising in view of Krushchev's expressed wish that everyone — the intellectual included — should get his hands dirty, to develop the necessary love for labor and identification with labor.

"In other words, higher education had taken on too much of the element of the theoretical and the secondary

schools were training students toward this type of higher education. Many students, therefore, had no place to go when they had completed their secondary education if they weren't acceptable in the universities."

Dr. Bergeson was a member of a 72-man group organized by the Comparative Education Society of the National Education Association to make the five-week study of Soviet education in 1958. The program was in the nature of an exchange with the Trade Union of Pedagogical Workers which has sent Russian educators here. Each of the group members was chosen for a particular interest, ranging from administration on the college level to instruction in specific subjects in the grade schools.

"We were well received and given excellent cooperation as long as we stayed within the area of interest for which the group was given permission to visit. When members of the group wanted to go exploring in areas which were not within the purview of the trip, they found all sorts of roadblocks. But that was not surprising, for the Trade Union which organized the trip for us with Intourist had no authority or position outside its own interests; therefore had we wanted to see or discuss other subjects, we should have arranged beforehand with people concerned with these subjects."

Since the trip, Dr. Bergeson has maintained an interest in the subject of Soviet education. He finds much to admire but sees little reason for Americans to rush to copy the methods and programs.

"Our purposes are different. For what Russia wants in education, their programs might be ideal; we have considerably different purposes."

Items of Interest

Elected and Appointed

BIERLY, G. W., Wilkes-Barre Center, appointed chairman, Wilkes-Barre Chamber of Commerce Visitation Committee.

— appointed chairman of the Program and Meeting Committee of the Luzerne County Chapter of Pennsylvania Society of Professional Engineers.

CARZO, ROCCO, management, appointed to the Acquisitions Committee of the Academy of Management.

CORSO, J. F., psychology, re-appointed for three-year term to serve on the Technical Committee on Musical Acoustics of the Acoustical Society of America.

MACKENZIE, OSSIAN, Business Administration, appointed to the Council of Educational Advisors of the American College of Life Underwriters and the American Institute for Property and Liability Underwriters.

ROSE, ARTHUR, chemical engineering, named chairman-elect of the Chemical Processes Subdivision of the American Chemical Society.

SPANGLER, MARGARET K., Library, elected to the Council of The American Library Association and to the Board of Directors of The Association of College and Research Libraries, both for four-year terms.

Lectures and Talks

BERNREUTER, R. G., President's office, a talk titled "Problems of Transition from High School to Undergraduate Schools of Business" as part of panel at meeting of Middle Atlantic Association of Colleges of Business Administration at Canisius College, Oct. 12.

CARZO, ROCCO, management, a talk before the Top Management Seminar at Rock Island Arsenal on "Organization Planning and Control."

GITHENS, H. W., Continuing Education, a talk on "Penn State Services in the Philadelphia Area" as guest on the Frank Ford Show, radio station WPEN, Philadelphia.

MARIN, JOSEPH, engineering mechanics, a lecture on "Properties of Materials" in the series in the 100th course in Humble Lectures in Science and Engineering at the Humble Oil and Refining Co. Research Center at Baytown, Texas.

faculty BULLETIN

Vol. 49, No. 12

Oct. 6, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Oct. 13

Artists Series program by Michael Mac Liammoir, in "The Importance of Being Oscar," 8:30 p.m., Schwab Auditorium (also Saturday at 8:30 p.m.)

Meeting of the faculty, College of Agriculture, 3:55 p.m.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Ernest A. Eichelbrenner, visiting professor of fluid mechanics at the Cite Universitaire, Quebec, Canada, on "Separation and Reattachment of Turbulent Three-Dimensional Boundary Layers."

Saturday, Oct. 14

Artists Series program by Michael Mac Liammoir, in "The Importance of Being Oscar," 8:30 p.m., Schwab Auditorium.

Varsity football, vs. Army, 1:30 p.m., varsity cross country, vs. Cornell, 1 p.m.

University Christian Association Forum Series, 8 p.m., The Chapel Lounge. Dr. Joseph Sittler, professor of theology, University of Chicago Divinity School, on "Worship and Intelligibility."

Inter-American Club meeting, Room 208, Engineering "E", 8 p.m., Columbus Memorial Day program. Faculty invited.

Sunday, Oct. 15

Protestant Service of Worship, 9 a.m., The Chapel. The Reverend William Kulre.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Sittler, University of Chicago Divinity School.

Chess Club, 2 p.m., HUB card room.

Organ Recital by George E. Ceiga, University organist, 4 p.m., Schwab Auditorium.

Monday, Oct. 16

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. Gerald Bosch, associate professor of elementary education, on "The Latin American Project at Penn State." (Tickets at HUB desk.)

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. S. C. Cowin, on "The Constitutive Equations of Viscoelastic Media."

NDEA French Institute guest talk by Dr. James M. Ferrigno, University of Massa-

(Continued on page three)

Symposium on religion underway

A two-year symposium built around the theme, "Religion and the Common Good" has been initiated by the Committee on Interreligious Affairs and the Office of the Chaplain and is expected to include ultimately other disciplines and segments of the University.

Lectures, courses, and Chapel programs will be directed toward the central theme.

The first lecture will be given Wednesday, Oct. 18, by The Most Rev. John J. Wright, S.T.D., Bishop of the Diocese of Pittsburgh. He will speak on "Religion in Mid-20th Century," at 8:30 p.m. in Schwab Auditorium.

Other speakers during 1961-62 will be Dr. Will Herberg, professor of Judaic Studies and Social Philosophy at Drew University, and Dr. H. Richard Niebuhr, professor of theology and Christian ethics, Yale University Divinity School.

During the Fall Term, Dr. John A. Mourant, professor of philosophy, is lecturing on "Understanding American Religious Traditions" each Tuesday at 6:30 p.m. in Room 1 Sparks. This is a noncredit course sponsored by the Committee on Inter-Religious Affairs and various religious foundations. In the Winter Term, Father Gerard J. Ream, Rabbi Norman T. Goldberg, and Reverend P. Barrett Rudd will give a course on "Doctrines in Dispute." The subject for the Spring Term will be "Contemporary Religious Issues," and the speakers will be announced later.

In addition, the various on-going religious programs on campus — such as residence halls discussions and foundation programs of various types — will be built on the general theme.

The purpose of the entire symposium, explains Dr. Luther H. Harshbarger, University chaplain, is to stimulate reflection and discussion by faculty and students, and others in the community of the many questions of religion in American life. Among the areas of theological and religious reflection to be considered are:

1. The question of the general welfare of the community and the moral fibre or content of its people.

2. The question of the nature of religious community.

3. The inter-relationship of church and state and all the questions which are rising around the principle of disestablishment.

4. A thorough consideration of the foundations of political community in a nation which has sought to weld together the ethical-religious resources of many religious traditions.

Other questions to be considered include what contributions religion can make to the understanding of the nature of national pride and hope and how the particular type of political community has influenced theological thought and articulation.

Bishop Wright, the first lecturer, was educated at the Boston Latin School, Boston College, St. John's Seminary, and the North American College in Rome. He served in the Archdiocese of Boston as professor at the Seminary and then as Secretary to the Archbishop of Boston. He was consecrated Auxiliary Bishop of Boston in 1947 and in 1950 was installed as the first Bishop of the newly created Diocese of Worcester. He was installed as the eighth Bishop of Pittsburgh in 1959.

Peace corps notes

A thorough look at the Peace Corps training program on campus and of the volunteers in the field will be taken by Dr. George M. Guthrie, assistant director of the training program, during the Winter Term.

"We expect to evaluate the program and the volunteers who have completed the training in a number of ways," says Dr. Guthrie, "but certainly one of the most significant criteria in this evaluation will be the personal relationship which has been established by the volunteer with the Filipinos."

"If he has failed to establish a good relationship, he will have accomplished very little because Filipinos rely extensively on the personal side in everything they do."

"Since he stands out so sharply among the Filipinos, they will react to him, at least for the short run, as a person rather than for his technical skill."

Dr. Guthrie expects to make his evaluations by five methods:

1. Personal statements from school principals and teachers, and probably also from such persons as the barrio mayor, whose influence in the community is considerable.

2. From the volunteer himself, the number of baptisms, weddings, and fiestas he has been invited to attend because such invitations are very significant barometers of personal acceptance. You aren't invited to be a godfather at a baptism unless you have gained the confidence of the family.

3. Tests of groups of children in classes to determine whether the pres-

(Continued on page two)

Peace —

(Continued from page one)

ence of an American has made a difference in the rapidity and skill in learning English. Basic purpose of the Peace Corps volunteers is to be a resource person to aid in the teaching of English.

4. Determine how well the volunteer has learned the dialect of the area he was living in, as a measure of how well he adjusted to and was accepted by the people in the area.

5. How much the volunteer learned about the Philippines.

"These are only some of the indicators which will be used to judge the volunteer and the selecting and training program," Dr. Guthrie says.

It is inevitable that one judgment the public will attempt to make is how well the volunteers are doing in representing and making friends for the United States.

In the rural areas of the Philippines, where these volunteers will be working, it would be hard to imagine more favorable feelings toward this country than those currently held by the Filipinos in Dr. Guthrie's opinion.

"The present view of the United States is so unrealistically favorable," he explains, "that in a sense, the only direction we can go is down. The Peace Corps volunteers will show some of our national faults—at least as they are viewed by the Filipinos who have had little exposure to Americans.

"The result ultimately will be a more realistic view of Americans, to the benefit of everyone."

Since personal characteristics are so important in the Philippines — and probably every other place volunteers will go — a part of the evaluation program will be devoted to determining what characteristics are proving desirable and which are not.

"To take an example out of thin air," Dr. Guthrie explains, "let us say that we may find that aggressive people generally create an unfavorable impression in the Philippines. If this should be so, we will have to teach our volunteers that assertive techniques do not work and help the volunteer to be more subtle in his or her efforts.

"The same might be said for a number of other characteristics."

The Peace Corps has adopted a motto — "To Learn and to Serve" — which emphasizes that it is at least as important for the volunteers to improve themselves as it is to help others. Filipino newspapers, as a matter of fact, have stressed the same point. The evaluation program will determine how well the training program is doing in this objective.

County agents

Honors were abundant for Penn State county agents at the meetings of National Association of County Agricultural Agents in New York recently.

Three agents were recipients of the Association's distinguished service awards: C. I. Robertson, Pottsville; M. Max Smith, Lancaster; and L. A. Carter, Washington.

Joe S. Thurston, Greensburg, who was re-elected secretary-treasurer for his fourth term and will serve on the national board, was presented with a silver platter in token of his service.

S. Glenn Ellenberger, Allentown, was elected vice-director for the Northeast District.

Elections or appointments to committees included C. H. Waha, chairman of recognition and awards; W. F. Greenwalt, to the same committee; Robertson, vice-chairman for the Northeast for extension programs; Rex E. Carter, Uniontown, and R. H. McDougall, Butler, to the steering committee.

Other committee assignments included: J. Stanley Hummer, Bloomsburg, Land-Grant colleges; E. J. Diefenbach, Montrose, public information; J. A. Bochy, Somerset, professional training; William H. Gregory, Dushore, 4-H; and Smith, relationships.

News in Brief

➤ **ONE WAY:** Effective Monday, Oct. 16, the drive south of Mechanical Engineering Building will be one-way east. Cars using the drive will exit from the Engineering parking lot (No. 5) via the drive north of Mechanical Engineering. The reason for the change is the narrow width of the drive and the difficulty of seeing traffic.

➤ **LUNCH:** Over 150 people took advantage of the University's newest food service plan the day of the Navy football game and many more are expected to do so tomorrow before the Army game. Football fans may obtain lunch at the East Halls dining commons (near the Stadium) between 11:30 a.m. and 12:45 p.m. in dining room "C" of the commons. Serving is cafeteria style.

➤ **NO PARKING:** Parking in Area 92 and the area around the Water Tunnel will be closed tomorrow so that the 1200 West Point cadets here to attend the Penn State-Army game may leave and board their train at the Bellefonte R.R. yards and that traffic

will be maintained with safety. The railroad yards will also be closed to parking. Areas 1 and 11 should be used if necessary.

➤ **VISUALS:** Dr. James M. Ferrigno, department of Romance languages, University of Massachusetts, will speak on "The Use of Films and Slides in Language" before the NDEA French Institute, Monday, Oct. 16, at 7:30 p.m. in the HUB assembly room. The lecture is especially suggested for those teaching or preparing to teach in the language field. Dr. Ferrigno has been in charge of the Language Theory and Workshop, French and Spanish, at the NDEA Language Institute at Colgate University for the past three summers.

➤ **CANCELLED:** The meeting of the Graduate School faculty scheduled for Oct. 17 has been cancelled. The next meeting will be held Nov. 17.

➤ **MOVIE:** The NDEA French Institute-sponsored movie, Wednesday, Oct. 18, will feature the noted comic Fernandel, with Arletty and Michel Simon. The movie is titled "Fric Frac" and is a satire on gangster films. It will be shown in Room 209 Home Economics South at 8 p.m. and there is no charge. The film has English subtitles.

➤ **LECTURES:** Dr. Frank Dacheille, research associate in geochemistry, will deliver 13 lectures in Virginia, North and South Carolina, Georgia, and Florida this month as an American Chemical Society lecturer. Most of the talks will be before ACS regional sections on geochemistry and its role in the development of general chemistry at high temperatures and pressures. It will also include a report on the high temperature-high pressure work of the department of geophysics and geochemistry.

➤ **PARKING:** No parking is permitted now on Shortlidge Road, between Curtin and Pollock Roads, because of increased traffic and pedestrian travel in the area.

➤ **RECITAL:** Raymond H. Brown, associate professor of music, with Barry Brinsmaid, assistant professor of music, as accompanist will present a vocal recital Sunday, Oct. 22 at 4 p.m. in Schwab Auditorium.

The program will include songs by John Blow, Henry Purcell, and George Munro to open, followed by a bass aria "O thou my Savior, give me answer" from Bach's Passion of St. John, with a choral group of nine students. Brahms Opus 105 and Poulenc's "le Bestaire" will precede another set of songs, by Charles Ives, Paul Bowles, and John Duke.



Ernst Schmidt, currently visiting American universities, will open the Simmons Series Tuesday with a program of satire with the aid of his puppets. No tickets are necessary.

Puppet Show

Ernst Guenter Schmidt, German entertainer, will be featured in the first offering in the 1961-62 Simmons Series Tuesday, Oct. 17, at 8 p.m. in the HUB Assembly Room.

With a troupe of marionettes he will present an evening of "Puppet-Cabaret" in German and English.

As a satirist, Schmidt pokes fun at many aspects of the contemporary scene through his puppets. He has given his program in Germany, Austria, and Switzerland and through the West German foreign service he is touring a limited number of American universities.

The department of German and the department of theatre arts are co-sponsors of the event. The Simmons Series honors the late Lucretia V. T. Simmons, who was professor of German for many years.

Chamber music

A series of three recitals by chamber music groups will be presented by the State College Choral Society this year, the first of which is by the New York String Quartet Sunday, Oct. 15, at 8 p.m. in the State College High School Auditorium. The other two performances will be by the Albeneri Trio January 9 and the Julliard String Quartet April 15.

The Choral Society, composed of area residents, 90 per cent of whom are either faculty or staff members or their wives, is directed by Raymond Brown, associate professor of music, with Barry Brinsmaid, assistant professor of music, as accompanist.

Tickets for the chamber music series, at \$5 each, are obtainable at the HUB desk as well as from Choral Society members.

Wilde in Schwab

Oscar Wilde, the Irish writer of the 19th century, comes to life again in the performance of Micheal Mac Liammoir at 8:30 p.m. this evening and again tomorrow in Schwab Auditorium on the Artists Series.

Through two hours of Wilde prose and poetry interwoven with biography, Mac Liammoir recreates the atmosphere of Wilde's times alone on the stage with only a few props.

Mac Liammoir is a foremost Irish actor of nearly 50 years experience. He was co-founder of the Dublin Gate Theatre and has given over 350 plays there, nine of which are his own. His performance of "The Importance of Being Oscar" (title of his present show) has drawn excellent notices in Dublin, London, Paris, and New York.

Tickets for the shows are on sale at the HUB Desk.

The American Ballet Theatre, which performed to a full house at Rec Hall in 1957, will be the next Artists Series guests, Sunday, Oct. 29. General sales of tickets will be held Oct. 26-29.

Hort Show

A fixture for Homecoming Weekend crowds, the annual Horticulture Show featuring exhibits in landscape architecture, plant breeding, food processing, and the culture of flowers, ornamental plants, vegetables, and fruits, will be held Oct. 28 and 29 in the Stock Judging Pavilion.

The centennial of the Civil War will serve as a theme for the show this year. Northern and Southern gardens of the period will be featured, including flags of the Union and Confederacy, and a northern grist mill and southern cabin.

Over 10,000 visitors are expected in the two days.

Calendar —

(Continued from page one)

chusetts, on "The Use of Films and Slides in Language," 7:30 p.m., HUB assembly room.

Tuesday, Oct. 17

Physics Colloquium, 4:15 p.m., Room 105 Walker Lab. Dr. L. E. Beghian, laboratory for nuclear science, Massachusetts Institute of Technology, on "The Interaction of One Mev Polarized Neutron with Oxygen, Carbon, and Deuterium."

Simmons Series program by Ernst Guenter Schmidt and his "Puppet-Cabaret," 8 p.m., HUB assembly room.

Mining Seminar, 4 p.m., Room 304 Mineral Industries. Sathit Tandanand, on "Rock Failure under Static Loading."

Panel discussion on the University's Peace Corps training program, with Dr. George Guthrie, acting director, as leader, 6 p.m., dining room "A", Hetzel Union Building, sponsored by Phi Delta Kappa, education fraternity. Open to all interested.

Wednesday, Oct. 18

Chess Club, 7 p.m., HUB card room. NDEA French Institute movie, "Eric Frac," starring Fernandel, 8 p.m., Room 209 Home Economics South.

Lecture by The Most Reverend Bishop John J. Wright, Bishop of the Diocese of Pittsburgh, 8:30 p.m., Schwab Auditorium, on "Religion in Mid-20th Century" sponsored by the Committee on Inter-religious Affairs and the Office of the Chaplain.

Thursday, Oct. 19

Metallurgy Seminar, 1:10 p.m., Room 229 Mineral Industries. Dr. John A. Sauer, head of physics department, on "Dynamic-Elastic Behavior of Polymers."

Biological Science Lecture, 3:55 p.m., Room 214 Boucke. Dr. Walter Bonner, Jr., The Johnson Foundation, University of Pennsylvania, on "Plant Cytochromes and Cyanide Insensitive Respiration."

Television listings

(The following television broadcasts from or concerning the University have been listed for the week of Oct. 16.)

HOME ECONOMICS

(WFBG-TV, Altoona, 9 a.m.)

Monday — Dr. Rose Cologne, Dr. Miriam E. Lowenberg, Helen A. Guthrie, and Lurene M. Jochem, on "Families in Today's World."

Wednesday — Dr. Rose Cologne, Dr. Ruth W. Ayres, Dr. James Montgomery, and Dr. Ruth E. Gates, on "Families in Today's World."

Friday — Dr. James Montgomery with three coeds on "The Coed's Dream House."

FARM, HOME, AND GARDEN

(WFBG-TV, Altoona, 1 p.m.)

Monday — Delores Williams, 4-H demonstration.

Tuesday — to be announced.

Wednesday — Helen Butler, using apples.

Thursday — Chester McMinn, winter bird attractions.

Friday — Paul Reber, apples.

AMERICAN PERSPECTIVE SERIES

(WFBG-TV, Altoona, 9 a.m.)

Tuesday — Innocence Abroad, Sinclair Lewis' "Dodsworth".

Thursday — Tender is the Night; F. Scott Fitzgerald.

Senate Minutes

Meeting of October 3, 1961

The University Senate met at 3:55 p.m. on Tuesday, October 3, 1961 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the August 1, 1961 meeting were approved as printed in the Faculty Bulletin for August 11, 1961. One hundred fifty-seven senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Martha Adams (Lucille Magnusson), H. K. Anders (H. J. Poorbaugh), E. G. Buss (E. B. Hale), H. M. Davison (D. W. Russell), E. M. Elias (V. L. VanHorn, Jr.), Iline Fife (R. S. Brubaker), M. S. Gjesdahl (E. E. Ambrosius), P. F. Hallock (M. R. Des Marais), Coleman Herpel (John Pixton), A. J. G. Maw (W. J. Mueller), R. C. Miller (G. W. Sherritt), N. J. Palladino (A. M. Jacobs), Stuart Patton (R. D. McCarthy), H. J. Read (J. H. Hoke), F. W. Peikert (H. V. Walton), A. W. VanderMeer (E. E. Edgar), Carl Volz (W. D. O'Connell), and J. B. Washko (L. T. Kardos).

New Senators

A letter was read from R. B. Dickerson, Associate Dean of the College of Agriculture, stating that A. R. Grove would serve as Acting Head of the Department of Botany and Plant Pathology.

A letter was read from Ossian MacKenzie, Dean of the College of Business Administration, stating that two senators had been elected. W. J. Schrader to serve for the two year term 1961-1963 to replace L. E. Fouraker who resigned from the University, and J. J. Kaufman to serve for the one year term 1961-62 to replace R. W. Kautz who is on leave of absence from the university.

A letter was read from C. I. Noll, Vice Chairman of the SENATE COMMITTEE ON COMMITTEES, recommending that Walter Braun replace C. H. Blanchard on the Senate Committee on Scholarships and Awards. The recommendation had the approval of President Walker.

A letter was read from R. G. Bernreuter asking the Senate to extend the privilege of attendance at meetings of the Senate to W. D. F. M. on a continuing basis until rescinded.

A letter was read from R. G. Bernreuter asking the Senate to extend an invitation to all student members of the Senate Standing Committees and sub-committees to attend the meetings of the Senate during the academic year 1961-62, and to grant them the privilege of the floor but not the right to vote.

President Walker called on the deans of the several Colleges and the Graduate School to introduce the new senators from the Colleges and the Graduate School.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals as listed on pages one and two. The motion was seconded and passed. He then presented page three of the report which listed courses dropped because they had not been taught during the past five years. He stated that such courses could be reactivated by forwarding the proper course proposal form to the Committee. Mr. Shelley stated that several errors were noted in this list and that Ent 413, I Ed 2v, I Ed 3v, I Ed 17v, and Mu Ed 39 had been offered during the past five years and should be deleted from the list. This list, with the above courses deleted, is for the information of the Senate.

NEW BUSINESS

L. H. Lattman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved

that the Senate extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1961-62, and to grant them the privilege of the floor but not the right to vote.

The motion was seconded and passed.

Mr. Lattman moved

that the Senate extend the privilege of attendance at meetings of the Senate to W.D.F.M. on a continuing basis until rescinded.

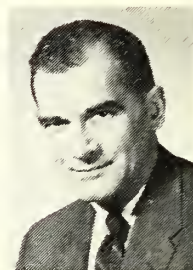
The motion was seconded and passed.

The next regular meeting of the Senate will be on Tuesday, November 7, 1961 at 3:55 p.m.; the agenda will be distributed on October 24, 1961. The meeting adjourned at 4:14 p.m.

Robert G. Bernreuter, Secretary

Albrecht resigns

Dr. Herbert R. Albrecht, who has been director of the Agricultural and Home Economics Extension Service since 1953, will become president of North Dakota University of Agriculture and Applied Science, Fargo, N. D., effective January 1, 1962.



The University is the Land-Grant institution of the state and was founded in 1890. It has an enrollement of 3,500 and was directed by Dr. Fred F. Hultz for 12 years, prior to his death in April.

Dr. Albrecht came to Penn State in 1947 as professor and head of the department of agronomy from Purdue University, where he devoted much of his effort to plant breeding and the teaching of genetics. He had served at Alabama Polytechnic Institute. He received all three degrees from the University of Wisconsin.

Ceiga Concert

George E. Ceiga, University organist, will present a concert in Schwab Auditorium Sunday, Oct. 15 at 4 p.m.

The program will consist of the following:

Bach's Fugue in C major, "Oh Man Bewail thy Grievous Sins," Prelude and Fugue in D Major, and Passacaglia and Fugue in C Minor.

Max Reger's "Weihnachten"; Paul de Maleingreau's "Le Tumulte au Pretoire"; Ernst Pepping's "Gelobt sei Gott in Hochsten Thron"; and Leo Sowerby's Requiescat in Pace.

faculty BULLETIN

Vol. 49, No. 13

Oct. 13, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Saturday, Oct. 21

Varsity football, vs. Syracuse, 1:30 p.m.; soccer vs. Maryland, 11 a.m.

Sunday, Oct. 22

Protestant Service of Worship, 9 a.m., The Chapel. Robert Boyer.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Leland Jamison, head of the department of religion, Syracuse University, on "In and Out of the World."

Recital by Raymond Brown, associate professor of music, accompanied by Barry Schenmaid, 4 p.m., Schwab Auditorium.

Chess Club meeting, 2 p.m., HUB card room.

Monday, Oct. 23

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Arthur J. Eames, distinguished visiting professor of botany, on "Some Practical Applications of Plant Morphology."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. S. C. Cowin on "The Thermodynamics of Viscoelastic Media."

Tuesday, Oct. 24

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Dr. Owen H. Sauerlender, associate professor of economics, on "Report on an Experiment in the Measurement of Utility and Subjective Probability."

College of Home Economics Faculty meeting, 3:55 p.m., Room 209 Home Economics South.

Philosophy Colloquium, 4 p.m., Room 203 Willard. Dr. Duane Whittier, on "Probability and the Naturalistic Fallacy."

American Chemical Society, Central Pennsylvania Section, meeting 8 p.m., Room 117 Osmond. Dr. Lloyd S. Nelson, Bell Telephone Laboratories, on "Flash Heating."

Wednesday, Oct. 25

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Oct. 26

Talk by Dr. Amiya Chakravarty, Indian scholar and philosopher and professor of Oriental Religions, Boston University, on "Nehru and Modern Asia," 12:30 p.m.,

(Continued on page four)

Enrollment increases by 1199

A higher retention rate of students, which may be attributed to improved scholarship, is largely responsible for the increase in enrollment this term over that of the 1960 Fall Semester, according to Dean of Admissions R. G. Bernreuter.

The enrollment statistics, summarized on pages 2 and 3, place the total enrollment at 22,855, an increase of 1,199 over that of 1960. At University Park, the enrollment increased by 1,316 (from 16,091 to 17,407) and at Commonwealth Campuses and Centers increased by 68, from 3523 to 3591. There was a decrease of 185 in enrollment in part-time Continuing Education classes.

The total freshman enrollment is greater by 450 than that of a year ago, but the number newly admitted is down by 398. Many freshmen were enrolled during the Summer Term and are now second-term students.

At the Commonwealth Campuses, enrollment in the four-year programs showed a very slight drop (from 1976 to 1923) but the enrollment in associate degree programs increased sharply, from 1431 to 1607.

For the University as a whole, the undergraduate enrollment increased by 1,322 and graduates decreased by 123. The number of male students increased by 779 and of women students by 420.

News in Brief

► **WOMEN:** Faculty women and wives of faculty members are invited to take part in a program of activities—badminton, bowling, fencing, swimming, and volleyball—each Tuesday from 2:30 to 4 p.m. or dance and exercise Thursday from 7:30 to 8:30 p.m. as developed by the College of Physical Education and Athletics. An initial session, in the form of a coffee hour to enable participants to become acquainted with the program and with each other, will be held Tuesday, Oct. 24, in Room 105 White Building.

► **DIED:** Dr. George H. Young, director of research for Mellon Institute of Industrial Research and trustee of the University from 1948 to 1951, died at Jennerstown, Pa., of a heart attack Tuesday, Oct. 10. He was a 1932 graduate of the University and also obtained masters and doctors degrees, in organic chemistry.

► **UCA DRIVE:** Faculty and staff members are reminded by the University Christian Association that the drive for funds to support the work of the UCA is still on. This year the fund drive is being conducted entirely by

mail. Faculty and staff members who did not get a brochure and other explanatory material may obtain them from the UCA office in the Helen Eakin Eisenhower Chapel, UN 5-7627.

► **STUDY ABROAD:** Dr. Dagobert deLevie, director of the Liberal Arts Study Abroad Program, and Dr. R. Wallace Brewster, chairman of the Liberal Arts Planning Committee, met recently with the Ambassador of the German Federal Republic to discuss the Study Abroad Program in which a limited number of Penn State students will study in German and French universities during the Spring Term. During the summer, Dr. Ben Euwema, dean of the College of the Liberal Arts, conferred with officials abroad on the Program and made preliminary arrangements.

► **ARTISTS:** The American Ballet Theatre will present the next program on the Artists Series Sunday, Oct. 29, at 8 p.m. in Recreation Building. Tickets for the general public will go on sale Thursday, Oct. 26 at the HUB desk at 9 a.m.

► **PLAYERS:** William Saroyan's "The Cave Dwellers" will open at Center Stage Friday, Oct. 27, directed by Kelly Yeaton. The play will be given each Friday and Saturday until Dec. 2.

► **FELLOWSHIPS:** November 1 is the deadline for receipt of applications for the National Science Foundation Cooperative Graduate Fellowships, of which about 1100 will be awarded nationally. Outstanding seniors and graduate students are eligible but must submit to the Graduate School Office, 101 Willard, a written statement from the head of their respective departments to the effect that the department is willing to support the application. Applications are made to the Graduate School Office.

► **EXHIBIT:** An exhibit of 113 prints from the permanent collection of the department of arts and sciences of the International Business Machines Corp. is currently on display at the HUB Gallery and will remain until Oct. 25. Termed "an exhibit which covers with unusual completeness the story of printmaking in this country," the prints are representative of the work of many artists of importance.

Registrar Reports on Enrollment for Fall Term, 1961

	1st Term	2nd Term	3rd Term	4th Term	5th Term	6th Term	7th Term	8th Term	9th Term	10th Term	11th Term	12th Term	13th Term	14th Term	15th Term	Total
AGRICULTURE																
ABCh	—	—	—	—	—	1	11	1	1	7	—	—	—	—	—	21
ABSc	—	—	3	246	21	8	34	13	2	13	7	3	—	—	—	350
AERS	1	—	—	2	1	1	11	3	—	11	3	3	—	—	—	36
AgEd	—	—	1	2	2	1	23	2	1	24	1	4	—	—	—	61
AgJ	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	2
Ag	229	34	13	3	1	—	—	—	—	—	—	—	—	—	—	280
Agro	—	—	—	—	—	—	7	1	—	7	—	1	—	—	—	16
AH	—	—	—	—	—	1	14	—	1	13	2	2	—	—	—	33
Bact	—	—	—	—	—	—	14	—	2	4	1	—	—	—	—	21
BPP	—	—	—	—	—	—	5	—	—	3	2	—	—	—	—	10
Consv	—	—	—	—	—	—	—	2	—	2	—	1	—	—	—	5
DSce	—	—	—	—	—	1	23	—	—	11	1	5	—	—	—	41
FRD	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	1
GnAg	—	—	—	2	1	—	5	1	—	9	1	1	—	—	—	20
Hort	—	—	—	1	1	—	13	—	2	13	3	1	—	—	—	34
LArch	5	—	1	19	2	—	13	—	—	8	2	6	—	—	—	56
MedT	—	—	—	—	—	—	15	—	1	11	—	1	—	—	—	28
PH	—	—	—	1	—	—	1	—	—	1	—	—	—	—	—	3
PV	—	—	—	7	1	2	21	2	—	2	—	—	—	—	—	35
ZE	—	—	—	2	—	3	23	2	1	14	6	3	—	—	—	54
School of Forestry																
For	—	—	1	1	1	3	6	37	—	36	6	5	—	—	—	96
WU	—	—	—	—	—	—	4	2	—	2	—	1	—	—	—	9
2-Yr. Ag	27	—	2	3	—	—	2	—	—	—	—	—	—	—	—	34
Total	262	34	21	290	31	21	246	67	11	191	35	37	—	—	—	1246
BUSINESS ADMINISTRATION																
BA	339	41	22	326	42	40	334	61	36	284	68	71	—	—	—	1664
Total	339	41	22	326	42	40	334	61	36	284	68	71	—	—	—	1664
CHEMISTRY & PHYSICS																
C&P	363	30	2	5	—	—	—	—	—	—	—	—	—	—	—	400
ChE	—	—	—	74	—	6	63	6	—	44	4	2	—	—	—	199
Chem	1	—	—	57	8	3	40	6	1	34	5	4	—	—	—	159
Phys	—	1	1	52	11	3	39	10	—	26	11	5	—	—	—	159
PM	1	—	1	58	10	2	38	8	3	22	4	1	—	—	—	148
Sc	—	—	2	17	3	1	13	4	2	13	2	3	—	—	—	60
Total	365	31	6	263	32	15	193	34	6	139	26	15	—	—	—	1125
EDUCATION																
AEd	—	—	2	28	4	5	33	6	1	23	8	4	—	—	—	114
Ed	509	132	15	18	2	2	2	—	—	—	—	1	—	—	—	681
EKEd	1	2	6	272	50	25	223	49	8	176	52	7	—	—	—	871
IArt	—	2	2	7	3	3	11	3	2	13	5	9	—	—	—	60
MuEd	—	—	—	20	1	—	16	1	2	22	3	2	—	—	—	67
Psy	—	—	3	83	32	10	92	14	18	78	12	13	—	—	—	355
RehEd	—	—	1	11	4	2	9	1	—	4	4	1	—	—	—	37
SecEd	—	5	7	191	36	31	192	33	18	188	50	37	—	—	—	788
VIEd	—	—	—	—	—	1	—	2	—	1	—	3	—	—	—	7
Total	510	141	36	630	132	79	578	109	49	505	134	77	—	—	—	2980
ENGINEERING & ARCHITECTURE																
AerSP	—	1	1	53	14	4	39	13	2	30	5	8	—	—	—	170
AgE	1	—	—	12	1	1	12	—	1	8	5	3	—	—	—	44
Arch	92	5	3	50	5	2	30	4	1	14	2	1	12	1	3	225
AE	21	—	3	15	—	—	4	2	—	8	1	2	7	3	1	67
CE	—	—	—	32	31	7	52	7	5	46	11	6	14	—	—	211
EE	—	—	2	146	43	9	165	49	12	129	52	62	—	—	—	669
Engr	695	104	32	18	—	—	1	—	—	—	—	—	—	—	—	850
EMch	—	—	—	18	3	—	15	3	—	13	5	5	—	—	—	62
ESc	—	—	—	25	3	—	17	1	—	12	4	2	—	—	—	64
IE	1	—	2	42	4	2	24	9	9	43	11	14	—	—	—	161
ME	—	1	1	96	12	5	83	12	8	70	15	24	—	—	—	327
SE	—	—	—	—	—	—	—	—	—	4	1	—	—	—	—	5
Total	810	111	44	507	116	30	442	100	38	377	112	127	33	4	4	2555
HOME ECONOMICS																
HEc	144	28	7	138	22	8	112	33	2	90	14	4	—	—	—	602
HA	—	—	—	1	—	—	—	—	—	14	3	4	—	—	—	22
2HFS	82	2	1	4	—	—	1	—	—	—	—	—	—	—	—	90
Total	226	30	8	143	22	8	113	33	2	104	17	8	—	—	—	714
THE LIBERAL ARTS																
AL	3	1	14	390	75	31	350	75	33	303	65	23	—	—	—	1363
LA	847	104	29	11	1	1	1	—	—	—	—	—	—	—	—	994
LMR	—	1	—	8	—	—	17	1	1	13	1	5	—	—	—	47
School of The Arts																
AArt	1	—	—	38	3	—	31	6	—	17	7	4	—	—	—	107
Arts	—	—	—	12	2	1	8	5	1	14	3	1	—	—	—	47
School of Journalism																
Journ	—	1	4	76	8	6	57	6	2	46	6	5	—	—	—	217
Total	851	107	47	539	89	39	466	94	37	393	82	39	—	—	—	2783

Registrar Reports on Enrollment for Fall Term, 1961

	1st Term	2nd Term	3rd Term	4th Term	5th Term	6th Term	7th Term	8th Term	9th Term	10th Term	11th Term	12th Term	13th Term	14th Term	15th Term	Total
MINERAL INDUSTRIES																
CerT	—	—	1	24	—	1	8	1	—	7	1	1	—	—	—	44
FT	—	—	—	3	—	1	6	2	2	8	2	—	—	—	—	24
Geog	—	—	—	3	—	—	5	1	1	8	2	1	—	—	—	21
GG	—	—	—	2	—	—	3	1	—	3	3	2	—	—	—	14
GM	—	1	—	3	1	—	3	—	—	3	—	2	—	—	—	13
GSc	1	—	—	15	1	1	9	—	—	—	—	1	—	—	—	28
Metal	—	—	1	27	3	2	13	1	1	24	4	2	—	—	—	78
Meteo	—	1	2	17	2	1	17	4	2	10	18	4	—	—	—	78
MnEc	—	—	—	1	—	—	5	1	—	10	2	—	—	—	—	19
MnI	131	9	8	2	—	—	—	—	—	—	—	—	—	—	—	150
MPE	—	—	1	3	1	—	2	—	—	3	—	—	—	—	—	10
MngE	—	2	2	1	1	—	6	—	—	2	—	1	—	—	—	15
PNGE	—	1	—	4	1	—	6	—	—	11	2	3	—	—	—	28
Total	132	14	15	105	10	6	83	11	6	89	34	17	—	—	—	522
PHYSICAL EDUCATION & ATHLETICS																
PhEd	36	14	6	65	8	6	60	2	6	55	6	19	—	—	—	283
RecEd	—	—	—	7	1	1	8	1	—	4	3	6	—	—	—	31
Total	36	14	6	72	9	7	68	3	6	59	9	24	—	—	—	314
DIVISION OF COUNSELING																
Coun	127	56	15	338	42	19	95	10	4	17	1	1	—	—	—	725
Total	127	56	15	338	42	19	95	10	4	17	1	1	—	—	—	725
TOTAL UNDERGRADUATES																
Total	3658	579	220	3213	525	264	2618	522	195	2158	518	416	33	5	4	14928
U. P. Campus																
	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals			
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T	
Full-time	2868	1577	2451	1527	2203	1109	2222	869	578	116	44	14	10366	5212	15578	
Part-time	8	4	17	7	9	14	34	9	1198	260	139	130	1405	424	1829	
Total	2876	1581	2468	1534	2212	1123	2256	878	1776	376	183	144	11771	5636	17407	
	4457		4002		3335		3134		2152		327					
Other Campuses (see summary below)																
Full-time (4-Yr.)	907	341	494	140	13	7	2	—	—	—	13	3	1429	491	1920	
Part-time (4-Yr.)	9	1	3	4	—	1	1	—	—	1	20	18	33	25	58	
Full-time (2-Yr.)	1037	7	498	1	—	—	—	—	—	—	3	—	1538	8	1546	
Part-time (2Yr.)	13	—	49	—	—	—	—	—	—	—	4	1	66	1	67	
Total (includes Mont Alto)	1966	349	1044	145	13	8	3	—	—	—	40	22	3066	525	3591	
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	292	97	835	633	1127	730	1857	
TOTAL ALL CAMPUSES	4842	1930	3512	1679	2225	1131	2259	878	2068	474	1058	799	15964	6891	22855	
	6772		5191		3356		3137		2542		1857					

Summary of Enrollment at Other Campuses

	Four-Year		Graduate		Special		Two-Year		Total
	FT	PT	FT	PT	FT	PT	FT	PT	
Allentown	—	—	—	—	—	1	106	3	110
Altoona	229	—	—	—	13	16	153	4	415
Behrend	173	3	—	—	—	3	98	10	287
DuBois	76	1	—	—	—	7	64	1	149
Hazleton	144	2	—	—	—	1	100	3	250
McKeesport	163	7	—	—	1	4	186	19	380
Mont Alto	107	—	—	—	—	—	—	—	107
New Kensington	—	—	—	—	1	1	88	9	99
Ogontz	844	5	—	1	—	1	110	—	961
Pottsville	168	1	—	—	3	7	52	—	231
Scranton	—	—	—	—	1	—	116	—	117
Wilkes-Barre	—	—	—	—	—	—	168	5	173
Wyomissing	—	—	—	—	—	—	152	2	154
York	—	—	—	—	—	—	152	6	158
Total	1904	19	—	1	19	41	1545	62	3591

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	260	29	12	5
Business Adm.	63	2	17	8
Chem. & Phys.	312	17	11	1
Education	272	109	35	28
Eng. & Arch.	229	—	21	2
Home Economics	4	64	—	18
Liberal Arts	293	118	76	80
Mineral Ind.	262	6	9	1
Phys. Ed.	32	12	2	1
General Graduates	31	19	—	—
Interdisciplinary Fields:				
B. Phys.	5	—	—	—
Ex. Ed.	—	—	—	—
SST	13	—	—	—
Total	1776	376	183	144
	2152		327	

Recapitulation

U. P. Campus			Other Campuses and Off-Campus		
	M	W		M	W
Full-time undergraduate	9789	5096	Full-time undergraduate	2967	499
Part-time undergraduate	206	164	Part-time undergraduate	99	50
Total undergraduate	9995	5260	Total undergraduate	3066	549
Full-time graduate	578	116	Part-time Continuing Ed. undergraduate	835	633
Part-time graduate	1198	260	graduate	292	97
Total graduate	1776	376	Total graduate	1127	730
Total U. P. Campus	11771	5636	Total U. P. Campus	4193	1255
Totals All Campuses	M	W	Total-		
Undergraduates	13896	6417	20313		
Graduates	2068	474	2542		
Grand Totals	15964	6891	22855		

Calendar —

(Continued from page one)

Chapel Lounge. Coffee and light lunch available at noon.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Harold A. Frediani, Bristol Laboratories, "The Development of Synthetic Penicillins."

Friday, Oct. 27

Talk by Dr. D. G. Sopwith, director of the National Engineering Laboratories of Great Britain, 8 p.m., Mineral Industries Auditorium, on "Research at the National Engineering Laboratories."

Talk by Dr. Amiya Chakravarty, Indian scholar and philosopher, now professor of Oriental Religions, Boston University, on "The Future of the United Nations," 7:30 p.m., Chapel Lounge, sponsored by Friends Peace Committee.

Players production of William Saroyan's "The Cave Dwellers," directed by Kelly Yeaton. Opening night at Center Stage; continues until Dec. 2.

Television listings

(The following television broadcasts from or concerning the University have been listed for the week of Oct. 23.)

HOME ECONOMICS

(WFBG-TV, Altoona, 9 a.m.)

Monday — "A Space to Live," with Mrs. Ruth H. Smith, Mrs. Cecile P. Sinden, and L. Rogene Wunderlich.

Wednesday — "To Own a Home?" with Mrs. Ruth Smith.

Friday — "Find and Make Beauty for your Home," with Dr. Miriam E. McGrew and David B. Van Dommelen.

FARM, HOME, and GARDEN

(WFBG-TV, Altoona, 1 p.m.)

Monday — Harold Holt, on hunting safety.

Tuesday — to be announced.

Wednesday — Margaret Nichol, on jack o'lanterns.

Thursday — George Settlemyer, on climbing roses.

Friday — Thomas Kelly, on hay shows.

AMERICAN

PERSPECTIVE SERIES

(WFBG-TV, Altoona, 9 a.m.)

Tuesday — Image of America, from Europe.

Thursday — The Quiet American and The Ugly American.

Personnel matters

Dr. Thomas F. Bates, professor of mineralogy, has been appointed assistant to the vice-president for research, to assist in the administration of the University's research program. Dr. E. F. Osborn is now vice-president for research.

Dr. Bates will be concerned especially with problems of research facilities and equipment and with a new program of acquiring equipment and apparatus for undergraduate science laboratories.

A graduate of Denison University, with master of arts and doctor of philosophy degrees from Columbia University, Dr. Bates joined the faculty in 1942 and has been engaged in research of many phases of mineralogy.

Dr. Edward Rosenheim, professor of English at the University of Chicago, has been appointed distinguished visiting professor of English for the Fall Term. He is a specialist in 18th century English literature, and has prepared a book about Jonathan Swift, edited the Rinehart edition of "Swifts Selected Prose and Poetry" and is the author of a guide to literature, "What Happens in Literature." He is currently teaching a course in 18th century prose and poetry and an English literature course involving a number of great books.

Dr. Rose M. Cologne has been named chairman of the division of home-community relationships in the College of Home Economics, succeeding Dr. Dorothy Houghton, who continues as associate dean of resident education. Dr. Cologne came to the University in 1941 and has served successively as assistant professor of home economics education, community adult education specialist, professor of adult education.

Dr. Alvin R. Grove, Jr., professor of botany, has been appointed acting head of the department of botany and plant pathology, to fill the vacancy created by the death of Dr. Jesse E. Livingston on Aug. 15. Dr. Grove joined the faculty in 1941, coming from the University of New Mexico.

Dr. Richard G. Cunningham, who served on the faculty from 1951 to 1954 and who



has been research engineer at the Shell Oil Co. for the past seven years, has been named professor of mechanical engineering.

Dr. David H. Rank, research professor of physics, has been appointed Evan Pugh research professor of physics, effective Oct. 1. Dr. Rank has been a member of the faculty since 1935 and has won international recognition for his research in spectroscopy and geometrical optics. He joins Dr. Haskell B. Curry, mathematics, and Dr. Woldemar A. Weyl, mineral sciences, as Evan Pugh research professor.

Dr. George Porter, professor and head of the department of physical chemistry at the University of Sheffield, has been named visiting professor of chemistry for the Fall Term. He is currently giving a course in reaction kinetics and photo-chemistry. Dr. Porter was the recipient, in 1955, of the Corday-Morgan Medal given by the British Chemical Society and in 1960 was named a fellow of the Royal Society. He is also a fellow of the Royal Institute of Chemistry.

The following members of the faculty have been named professors (note that other promotions will be listed in next week's Faculty Bulletin):

Dr. Adam Anthony, zoology; Dr. Vernon V. Asaturian, political science; Ronald A. Bartoo, forestry; Dr. Kenneth R. Beittel, art education; Dr. Alfred K. Blackadar, meteorology; Dr. Joseph A. Dixon, chemistry; Dr. James J. Fritz, chemistry.

Dr. Edgar B. Hale, animal behavior; Joseph W. Hunt, mineral engineering continuing education; Melvin W. Isenberg, architectural engineering; Dr. Henry W. Johnstone, Jr., philosophy; Dr. Fred W. Kniffin, marketing.

Dr. Boris J. Kochanowsky, mining engineering; Dr. Monroe Newman, economics; Dr. Robert D. Pashek, business administration; Dr. David Rank, Evan Pugh research professor of physics; Dr. Allan L. Rodgers, geography.

Dr. Radha R. Roy, physics; Dr. Bruce M. Siegenthaler, clinical speech and audiology; Dr. Josephine M. Schoenfeld, mathematics; Dr. Lowell Schoenfeld, mathematics; Dr. William Spackman, Jr., paleobotany and director of the Coal Research Section; Dr. Gerald M. Torkelson, education; Dr. Vladimir Vand, physics; and Harold V. Walton, agricultural engineering.

faculty BULLETIN

Vol. 49, No. 14

Oct. 20, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Oct. 27

Talk by Dr. D. G. Sopwith, director of the National Engineering Laboratories of Great Britain, 8 p.m., Mineral Industries Auditorium, on "Research at the National Engineering Laboratories."

Talk by Dr. Amiya Chakravarty, Indian scholar and philosopher, now professor of Oriental Religions, Boston University, on "The Future of the United Nations," 7:30 p.m., Chapel Lounge, sponsored by Friends Peace Committee.

Players production of William Saroyan's "The Cave Dwellers," directed by Kelly Yeaton, Opening night at Center Stage; continues until Dec. 2.

Meteorology Seminar, 3:55 p.m., 202 Electrical Engineering, Dr. David Wark, U. S. Weather Bureau, Satellite Meteorology Section, on "Radiation Measurements by Satellite."

Saturday, Oct. 28

Football, vs. California, 1:30 p.m.; soccer, vs. Navy, 11 a.m.

Horticulture Show, Stock Judging Pavilion, all day.

Players production of "The Cave Dwellers," 8 p.m., Center Stage.

Sunday, Oct. 29

Protestant Service of Worship, 9 a.m., The Chapel, Donald McIvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. Luther Harshbarger, University Chaplain, on "Faith and the American Character."

Artists Series program by the American Ballet Theatre, 8 p.m., Recreation Building.

Monday, Oct. 30

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A", Dr. Elton Atwater, professor of political science, on "The Troika Proposal for U. N. Reorganization."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond, W. Simmons, on "Laplace and Fourier Transforms."

Meeting of the College of Physical Education and Athletics faculty, 7 p.m., Recreation Room, White Building.

(Continued on page three)

NEWS IN BRIEF

► **COMEDY:** "Leave it to Jane," a musical comedy with music by Jerome Kern and featuring in its production a number of University faculty and staff members, is being produced by the State College Community Theatre this weekend at the Senior High School Auditorium. Tickets are available at the box office. Included in the cast or producing staff are Joseph Servello, Virgil Neilly, Kenneth Holderman, John Muntone, Mary Ellen Savage, and Gilbert Aberg, all of the University faculty or staff.

► **PEACE CORPS:** Dr. Vitaliano Bernardino, assistant director of public schools, Republic of the Philippines, will arrive Oct. 29 to visit the University's Peace Corps Project.

► **EXHIBITION:** Recent works of the faculty of the School of the Arts went on display in the HUB Gallery today and will continue for several weeks. Informal talks will be given at the gallery at 7 p.m. Wednesday, Nov. 1, by Derickson Brinkerhoff, associate professor of art and architectural history, and on Nov. 8 by Walton J. Lord, instructor in art.

► **CLARINETIST:** Robert Lowry, clarinetist, will be guest soloist with the Penn State Blue Band during the halftime performance at the California-Penn State game tomorrow. The band will be directed by James W. Dunlop in "The Licorice Stick Story," a sequence to illustrate the important place of the clarinet in the development of popular music.

► **ADDRESS:** Dr. Eric A. Walker, president of the University, will deliver the principal address Nov. 9 at the dedication of the new United Engineering Center in New York. The Center is a 20-story \$12 million building which will house the offices of 19 member organizations. It is located on the United Nations Plaza.

FROM THE LIBRARY

Because the University Library has reported an unusually heavy demand for books and services during the Fall Term, the Library staff suggests that faculty members may help to improve the service if they will:

1. Submit lists for reserve books early, prior to the opening of the Term if possible.

2. Inform the library staff of special assignments which may result in unusual library use.

3. Consult with the Library staff about reproducing materials in great demand. Photo-duplication equipment is available to make extra copies of periodical articles, serving to protect materials against theft and mutilation.

► **LAND GRANT:** An exhibit related to the centennial of the signing of the Morrill Land Grant Act and Pennsylvania's acceptance of the provisions of the Act is currently on display in the lobby cases at Pattee Library. The exhibit was prepared by the Penn State room, with the aid of University's Centennial Committee and the Department of Public Information. It will continue on display until Dec. 9.

► **RECREATION:** Recreation classes for male members of the faculty will begin Tuesday, Oct. 31. S. P. Fogg, associate professor of physical education, is in charge of the program which will feature badminton every Tuesday and Thursday from 1:15 to 3 p.m.

► **ARTISTS:** The American Ballet Theatre will be featured on the Artists Series Sunday, Oct. 29, at 8 p.m. in Recreation Building. On Sunday, Nov. 5, Rosalyn Tureck, pianist, will be presented at Schwab Auditorium at 8:30 p.m. Tickets for this performance will be available to the public at the HUB desk starting Thursday, Nov. 2, at 9 a.m.

► **SHOW:** The annual Horticulture Show will be held in the stock judging pavilion on Ag Hill tomorrow and Sunday. Featured will be displays of flowers, ornamental plants, vegetables, and fruits. Theme of the 1961 show is "A Century Ago," commemorating the Civil War centennial. "Northern" and "Southern" gardens have been designed for the show by students in landscape architecture and horticulture, members of the Horticulture Club which sponsors the show.

► **COMMENDATION:** Meteorologists of the University were commended by the Federal Aviation Agency for their role in locating a fallen aircraft in Clearfield County Aug. 20. Dr. Charles L. Hosler, head of the meteorology, received the letter of commendation from Oscar Bakke, of the Agency's Eastern Region, who pointed out that the department's assistance in tracing the aircraft's flight pattern by means of radar aided the investigators immeasurably.

► **NUCLEAR:** More than 350 engineers and scientists from 39 countries have received training for periods of from four weeks to a year at the University's reactor. Forrest J. Remick, now on leave from his position as acting director of the reactor, reported at a symposium organized by the International Atomic Energy Agency on the programming and utilization of research reactors in Vienna.



With A. E. Diem as chairman, the Personnel Representatives Committee meets.

Personnel representatives

FOR more than five years the Personnel Representatives Committee has been doing an effective, albeit quiet, job of helping the University's machinery run more smoothly.

The Committee was set up in 1956 by Dr. Erie A. Walker, who was then vice president, because it was recognized that some way was needed to bridge the gap between faculty and staff members and the administration.

One of the more serious problems, it was then recognized, was the lack of knowledge of University policies. On the other hand, there was a recognition that the administration knew too little about the problems of the faculty and staff members.

Improvement in communication was, therefore, one of the most pressing jobs of the Committee when it was formed. Since then it has taken on a great many other responsibilities, assisting, for example, in the development of new and revised personnel policies. Two policies of especial importance worked out with the aid of the Committee have to do with hourly rates of pay for part-time employees and payroll procedures.

With Albert E. Diem, vice-president for business, as chairman, and Ray T. Fortunato, head of the department of personnel services and employee relations, as vice-chairman, the committee meets on an average of twice monthly to consider policies and common problems. However, of considerable significance also are the Committee member's personal relationships with faculty and staff members.

Through Personnel Representatives, faculty members, supervisors, and the employees can get the answers to a great many questions ranging from parking to hospital insurance, from educational privileges to vacation and sick leave.

Personnel Representatives, selected by the dean of a college or the administrative head of a department, may have full-time personnel assignments — like Arnold Addison for ORL and John Dombroski for housing and food services — or part-time personnel responsibilities such as Leon D. Skinner for the College of the Liberal Arts and John D. Ridge for Mineral Industries.

Members of the Committee, who invite your questions and suggestions, are:

Accounting, Military Property Custodian — W. Murray Carr, Jr.

Admissions, International Student Affairs, Scheduling, Student Affairs Research, Student Aid — Laura Bower

Agriculture — Samuel I. Auken
Alumni Fund, Alumni Office, Penn State Foundation — Robert E. Beam

Associated Student Activities, Coordinator, Student Activities, Hetzel Union Building, University Chapel — William F. Fuller.

Business Administration — Vera Adams
Chemistry and Physics — R. G. Asch
Continuing Education — Paul E. Benner
Counseling, Dean of Men, Dean of Women, Placement — Myrtle Ely

Education — G. I. Free
Engineering and Architecture — MacDonald Heebner

Food Service and Housing — John A. Dombrowski, Donald T. Arndt

General Services — Luther R. Robb
Graduate School — Margaret Ball

Health Center, Management Engineering — J. William Wilson

Home Economics — Dorothy Deasy
Liberal Arts — Leon D. Skinner

Library — Margaret Spangler
Maintenance and Utilities, Physical Plant

Planning and Construction — Ralph F. Searly
Mineral Industries — John D. Ridge

Nittany Lion Inn — L. Edwin Brown
Ordnance Research Laboratory — Arnold Addison

Physical Education and Athletics — Ralph R. Ricker

Public Information — W. F. Ackerman
Purchases — Josephine Groesbeck

Security — William C. Pelton
Ex-officio — A. E. Diem, R. T. Fortunato,

R. W. Dombrowsky

Artists policy

The Artists Series Committee, answering a number of inquiries, has restated its policy relative to the sale and use of tickets for the Artists and Lecture Series.

Tickets are distributed free to full-time undergraduate and full-time graduate students beginning at 1:30 p.m. on the first of several designated days and continuing each of the other days from 9 a.m. to noon and 1 to 5 p.m. Sale of tickets to the general public is made on designated days from 9 a.m. to 12 noon and from 1 to 5 p.m.

All General Sale tickets left unsold after the final designated days will revert to the students. Any tickets still remaining will be distributed or sold at the door.

Graduate assistants are entitled to tickets but they must have their matriculation cards appropriately stamped by the associate registrar.

Non-students will not be admitted on student tickets. Students must be prepared to present their matriculation card to the ticket taker.

Early arrivals may not save seats for late arrivals.

Players show opens

William Saroyan's "The Cave Dwellers," produced by the Penn State Players and directed by Kelly Yeaton, associate professor of theatre arts, opens tonight at 8 p.m. at Center Stage.

The show will continue each Friday and Saturday until Dec. 2.

The cave dwellers live in an abandoned theatre on New York's lower East Side, waiting to have the walls torn down around them to make room for a housing project. Ed Anderson, second year graduate student, has the lead role. He has been seen previously in "Summer and Smoke" and in two Mateer Playhouse productions the past summer, as defense attorney in "The Deadly Game" and in "Epitaph for George Dillon."

Awards nominations

Faculty and staff members are invited to nominate candidates for the University's "Distinguished Alumnus Award" and "Penn State Woman of the Year" award for 1962.

The recipients of the awards will be chosen by the Trustees at the January 1962 meeting of the Board. Five alumni will be selected for the first award, and one woman will be honored as Penn State Woman of the Year. The

(Continued from page two)

Items of Interest

Articles and Papers

ALBINSKI, H. S., political science, an article titled "Australia's Defense Enigma" reprinted in April issue, Military Review; July-August issue, Survival; and the August issue, Australian Army Journal.

BEALER, R. C., rural sociology, with Willits, Fern K., a paper in the November issue of "The Annals" titled "Rural Youth: A Case Study in the Rebellion of Adolescents."

BOWHILL, electrical engineering, a paper on "The Ionosphere" at the Space Flight Report to the Nation sponsored by the American Rocket Society in New York.

At the annual meeting of the Psychonomic Society, papers by the following psychology department members:

CAMPBELL, R. E., with HORROCKS, J. C., Division of Counseling, a paper titled "Relationship between MTAI Scores of Students and their Parents" in the August issue of the Journal of Education Psychology.

CORSO, J. F., on "A Theoretical Review of the Threshold Concept."

GROSSLIGHT, J. H., with HARRISON, PAUL, and Weiser, Conrad, on "Discriminated Characteristics of Vocal Operants in the Myna Bird."

PROKASY, W. F. and HALL, J. F., on "Generalization: Lashley and Wade Revisited."

WARREN, J. M., with GRANT, R. A. (Stanford) and Hara, K. A. (International Christian) on "Defects in Visual Learning in Monkeys with Unilateral Cortical Lesions."

FERGUS, C. L., plant pathology, and Stambaugh, W. J., forestry, with Cobb, F. W. and Schmidt, R. A., a paper on "The Effect of Conidial Concentration on Perithecial Formation by the Oak Wilt Fungus" in the Plant Disease Reporter, September, 1961.

HOFFMAN, H. S., with FLESHER, MORTON, on "Discriminated Lever Press Avoidance."

JACKSON, D. N., psychology, a paper on "Research Styles and Problems in the Assessment of Psychopathology" at the 14th International Congress of Applied Psychology, at Copenhagen.

KENNINGTON, RICHARD, philosophy, an article titled, "Descartes' Olympia" in the Summer issue of the Social Research journal.

KOKAT, R. G., business administration, a paper titled "Some Economic Implications of Disarmament on the Structure of American Industry" at the annual meeting of the Econometric Society.

MARIN, JOSEPH, engineering mechanics, with Dapprich, A. E. and Weng, Tu Lung, a paper at the 1961 Petroleum Mechanical Engineering Conference of the A.S.M.E. on "Strength of Thick-Walled Pressure Vessels for Materials with Directional Properties."

MARIN, JOSEPH, engineering mechanics, a paper on "Mechanical Behavior of Engineering Materials" for a symposium on the teaching of materials in civil engineering at the annual meeting of the American Society of Civil Engineers in New York.

MOURANT, J. A., philosophy, an article titled "The Limitations of Religious Existentialism" in the September issue of the International Philosophical Quarterly.

PASTO, J. K., agricultural economics, a paper on "The Role of Farm Management in Underdeveloped Countries" in the August issue of the Journal of Farm Economics.

READ, H. J., metallurgy, two papers at the national meeting of the Electrochemical Society in Detroit, on "The Effects of

Addition Agents on the Physical and Mechanical Properties of Electrodeposited Metals" and, with G. W. Bush, National Steel Corporation, on "X-ray Determination of Residual Stress in Electrodeposited Nickel."

ROSE, ARTHUR, chemical engineering, papers at the American Chemical Society Meeting Sept. 3-8: "Separation Processes and the Petroleum Industry Before and After 1961;" "Design Study for New Multistage Fluidization Reactor" with E. D. Williamson, A. A. Jonke, and E. T. Williams; "Amplified Distillation Predictions by Piecewise Linear Computation Procedure" with R. E. Stillman; and "Prediction of Vapor Pressures of Homologs by Means of Structure Factors and Gas Chromatography Retention Volumes" with V. N. Schrodt.

SMITH, W. S., theatre arts, a paper on the teaching of playwriting at the meeting of the American Educational Theatre Association in New York.

STAFFORD, R. E., student affairs research, a paper on "Measures of Misinformation, Partial Information, and Un-information Related to Personality Traits" at the annual meeting of the American Psychological Association in New York.

Elected and Appointed

FORTUNATO, R. T., personnel services-employee relations, appointed chairman, Committee on Labor Relations, College and University Personnel Association.

—appointed chairman, Eastern University Personnel Group.

GOLATZ, H. J., labor relations, elected president of the Pennsylvania Federation of Teachers.

MARSH, C. R., electrical engineering, named to the Executive Committee, Highway Research Board, Washington, D. C.

PASHEK, R. D., reappointed to three-year term to the National Educational Committee, Delta Nu Alpha, transportation education fraternity.

SCHEIN, RICHARD D., plant pathology, appointed chairman of the Committee on Plant Meteoropathology, International Society of Biometeorology.

—appointed to the editorial board of the International Journal of Biometeorology.

VEON, DOROTHY, education appointed chairman of public relations for the American Business Writing Association.

WINGFIELD, C. J., public administration, chairman of a panel on urban planning at the Third Annual Conference on Metropolitan Research Problems sponsored by the Brookings Institution at Syracuse University.

Honors and Awards

BALMER, L. W., chemistry, Behrend, awarded Silver Beaver by the Washington Trail Council, Boy Scouts of America.

WILLARD, MARY L., chemistry, cited by the Metropolitan Microchemical Society of New York, for valuable services in advancing the science of chemical microscopy, for devotion to teaching, and furthering the field of microscopy throughout the world.

Publications

BUGBEE, H. G., JR., philosophy, the book, "The Inward Morning" to be published as a paperback by the Crowell-Collier Co.

HOOGENBOOM, ARI, history, a book, "A History of the Civil Service Reform Movement, 1865-1883" published Oct. 16 by the University of Illinois Press.

Arts

PHILLIPS, MATTHEW, Ogontz, on leave, an exhibit of monotypes at the Philadelphia Print Club.

Calendar —

(Continued from page one)

Tuesday, Oct. 31

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. T. Chao on "Indexing Relations in Percussion Drilling."

Wednesday, Nov. 1

Chess Club, 7 p.m., HUB card room.

NDEA French Institute movie, 8 p.m., Room 209 Home Economics South. "Nais" (country girl) with Fernandel.

Thursday, Nov. 2

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. D. A. Bromley, physics department, Yale University, on "Nuclear Molecules."

Gallery talk by Derickson Brinkerhoff, associate professor of art and architectural history, 7 p.m., HUB art gallery.

Metallurgy Graduate Seminar, 1:10 p.m., Room 229 Mineral Industries. W. R. Buessem, on "Effect of Grain Size on the Properties of Ferroelectrics and Ferromagnetics."

Meeting of the faculty, College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. H. V. Wiseman, Leeds University, on "Constitutions: Are They Exportable?"

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. F. P. Lossing, National Research Council, on "Free Radical Studies using Mass Spectrometry."

Friday, Nov. 3

English Colloquium, 3:30 p.m., HUB Assembly Room. Dr. Maurice Cramer, professor of English, on "Book and Ring in 'The Ring and the Book'."

Television listings

HOME ECONOMICS

(WFBG-TV, Altoona, 9 a.m.)

(For the week of Oct. 30)

Monday — New Style Servants, with Mildred G. Arnold, Janice M. Chennault, and Dr. Barbara E. Densmore.

Wednesday — "Dead Tired at Four O'Clock?" with Helen A. Guthrie, L. Jeanne Riebel, and Janice M. Chennault.

Friday — Engineering in Homemaking, with L. Jeanne Riebel and Janice M. Chennault.

AMERICAN

PERSPECTIVE SERIES

(WFBG-TV, Altoona, 9 a.m.)

Tuesday — The Quiet American and the Ugly American.

Thursday — The American Hero.

Graduate lecture

Dr. H. V. Wiseman, senior lecturer in government, Leeds University, England, will give the next Graduate School Lecture Thursday, Nov. 2 at 8 p.m. in Room 121 Sparks.

He will speak on "Constitutions: Are They Exportable." He will discuss the nature of modern constitutions and the basic conditions necessary to their effective working. Answers with special reference to Africa will be given to questions concerning the adoption of constitutions by countries other than those of their origin.

In addition to teaching in various grammar schools and serving as education officer, British West Indies, he has been at Leeds since 1950.

Personnel matters

The following promotions of faculty members have been announced:

Assistant Professor to Associate Professor

Dr. Frank Anthony, agricultural education; Leonard G. Austin, fuel technology; Dr. Paul T. Baker, anthropology; John S. Barth, English; Dr. Alice K. Bicknell, microbiology; Luther T. Bissey, petroleum and natural gas engineering.

Dr. W. Wayne Boyle, entomology; Dr. Rocco Carzo, Jr., management; Dr. H. Kirk Dansereau, sociology; Dr. Douglas J. Donahue, physics; Kaj Drenck, physics; Marlowe D. Froke, journalism; Dr. Paul S. Greenlaw, management.

Dr. Leonard F. Herzog II, geochemistry; Dr. I. Clarence Hisatsune, chemistry; Dr. Douglas N. Jackson, psychology; Dr. Walter Jaunsemis, engineering mechanics; Dr. Philip A. Klein, economics; Michael R. Lynch, agricultural extension; Dr. Sidney F. Mack, mathematics.

Earl A. Myers, agricultural engineering; William D. O'Connell, electrical engineering; Herman R. Purdy, animal industry; Dr. Guy E. Rindone, ceramic technology; Dr. Richard D. Schein, plant pathology; Dr. Maurice Shamma, chemistry; Dr. William A. Steele, chemistry; Dr. James Tammen, plant pathology; Dr. George A. Theodorson, sociology; and Dr. Eugene G. Williams, geology.

To Assistant Professor

Dr. Henry A. Albinski, political science; Thomas Badger, engineering, New Kensington; Robert A. Campbell, engineering graphics; Janice N. Chennault, home management; Marilyn J. Conwell, Romance languages, Ogontz; John B. Dalbor, Romance languages; Dr. Robert E. Dunham, speech.

Nyla Falkenhagen, speech, Behrend; Dr. Richard G. Gidez, English; George W. Gunther, art, Altoona; Wesley R. Kriebel, agricultural economics extension; Frederick B. Laidlaw, English; James M. Lawther, engineering research; Richard L. McCarl, agricultural and biological chemistry; Grant W. Sherritt, animal industry; Howard K. Slaughter, speech, Altoona.

Robert Stefanko, mining engineering; Dr. Albert G. Tsugawa, philosophy; John D. Vairo, journalism; and Arthur L. Williams, insurance.

The following additions to the faculty have been announced:

Charles D. Auvenshine, instructor in educational services.

Lawrence M. Casellini, research assistant, engineering research.

Thomas C. Clements, research assistant in engineering research.

Rachel G. Conover, instructor in engineering.

John J. Coyle, Jr., assistant professor of business administration.

Martha Elizabeth Davis, assistant professor of education.

Samuel S. Dubin, associate professor of psychology.

Earl E. Edgar, professor of education.

Jesse M. Darlington, assistant in animal industry.

Samuel E. DeMerit, instructor in Romance languages.

Grace Ferrari, instructor of speech.

William Ginoza, associate professor of physics.

Lester Hamel, research assistant in student affairs research.

John Harrison, assistant professor of journalism.

Donald Hobar, instructor in English.

Charles L. Holt, instructor in English.

John V. Hottel, associate professor of education.

Forest W. House, professor of education.

Lorraine T. Kapitanoff, instructor in Slavonic languages.

Robert G. Kokat, assistant professor of business administration.

Lawrence J. Lowenstein, instructor in English.

Chauncey S. Miller, research assistant in engineering research.

Stanislaw G. Mrowka, associate professor of mathematics.

John Patton, instructor in anatomy and physiology.

William C. Paynter, research assistant in engineering experiment.

Leonard F. Raver, assistant professor of music.

Harlan Stevens, assistant professor of mathematics.

Donald D. Street, instructor of agricultural economics.

Francis A. Wood, assistant professor of forest pathology.

Joseph Zaffaroni, associate professor of education.

Awards —

(Continued on page four)

awards will be presented at the time of the Alumni Institute next June.

The screening committee will begin its deliberations on November 1. Nominations should be forwarded to the Secretary of the Board of Trustees, 201 Old Main, and should include a biographical sketch of the nominee, his address, and the basis on which the nomination is made. Persons currently serving on the staff of the University or on the Board of Trustees are not eligible to receive either award.

English placement

In the past four years entering freshmen have shown improvement in their English preparation, if relative results of the University's placement test are an indicator.

Since the test was first given in 1958, there has been a steady relative increase in the numbers of students scheduling English 2 as their beginning course and a steady decrease in the percentage taking remedial work, English 0. Others take English 1.

Dr. Henry W. Sams, head of the department of English, points out that the 90-minute test is evidently a successful criterion for placement of students in view of the fact that few students taking English 2 as beginning course fail.

The percentages of the freshman class taking English 2 and English 0 are:

	Eng-2	Eng-0
1958	13.2	12.0
1959	16.1	9.5
1960	18.6	5.7
1961	21.7	5.5

faculty BULLETIN

Vol. 49, No. 15 October 27, 1961

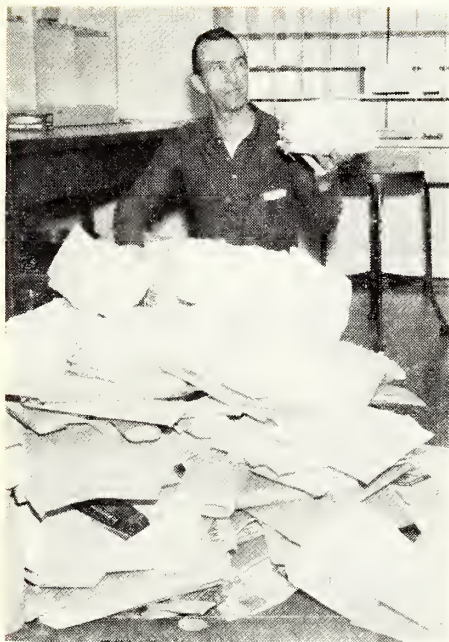
Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University



Harold Shope, campus mailman, and 450 pounds of misaddressed mail.

Mail service

THE continued increase in the volume of incoming U.S. mail, both at the State College and campus postal facilities, requires an improvement in mail addresses if service is to be maintained without skyrocketing costs.

Wilbur F. Diehl, supervisor of mail and telephone services, explains that a program to inform faculty and staff members of the urgent need of their assistance in accomplishing the improvement will be inaugurated within the next week or ten days. Cards sug-

(Continued on page three)

► **PHILOSOPHY:** Dr. Jeanne Hersch, professor of philosophy at the University of Geneva, Switzerland, will talk on "Historical Consciousness and Sense for Truth," Friday, Nov. 10 at 8:30 p.m. in Room 214 Boncke. Dr. Hersch, who was distinguished visiting professor at Penn State during the Spring Semester, 1959, is currently visiting professor at Hunter College. The department of philosophy is sponsor of the lecture, which is open to the public.

► **BROADCASTS:** Two radio programs of FM station WDFM may be of interest to faculty and staff members. Both recall earlier years of radio. "Remember Radio" is a program of old network shows — such as "Amos and Andy" and "Dragnet" — heard Thursdays at 7:30 p.m. Wednesdays at 9 p.m., "Waxworks" presents recordings of years back, including artists such as Enrico Caruso, Al Jolson, Harry Lauder, etc. This program is also carried on WMAJ.

► **LEGISLATORS:** At the invitation of the University, ten Western Pennsylvania legislators made a tour of the University Park campus last week.

► **INVITATION:** Dr. Joseph Marin, head of the department of engineering mechanics, has been invited to present a series of lectures in the U.S.S.R. at the Academy of Sciences in Moscow, and to spend three weeks visiting scientific laboratories in the Soviet Union. The date of the visit is to be announced later.

► **HONORED:** Dr. John F. Corso, professor of psychology, represented the College of Education at Oswego of the State University of New York at inauguration ceremonies for Howard Lane Rubendall as 24th president of Dickinson College, Carlisle, Oct. 28. Dr. Corso was graduated from Oswego in 1942.

► **ARTISTS:** Rosalyn Turcek, pianist and foremost interpreter of Bach, will be featured in the Artists Series Sunday, Nov. 5 at 8:30 p.m. in Schwab Auditorium. Tickets remain on sale at the HUB desk. Miss Turcek, who makes her home in London, brought her celebrated Glundebourne Bach Festival to the New York Metropolitan Museum of Art this fall.

The Bayanihan Philippine Dance Company will be featured Sunday, Nov. 12, at 8 p.m. in Recreation Building. Tickets for this performance will go on sale at the HUB Wednesday, Nov. 8.

► **RECEPTION:** The University Club will hold its annual reception, to which all faculty members are invited. Sunday, Nov. 5 from 3 to 5 p.m. at the Club. Special guests will be Manazucca, composer, Gimi Beni, baritone, and Olivia Bonelli, lyric soprano, of the Metropolitan Opera Guild, who will present a concert Saturday, Nov. 4 in the Senior High School Auditorium, at 8:15 p.m.

► **SERVICE:** Alpha Phi Omega, national service fraternity, is anxious to develop programs in the community and on campus in which its members can do work of benefit to organizations needing such aid and unable to pay; projects such as helping Red Cross Bloodmobile, assisting with foreign relief projects, etc. More information can be obtained by calling Arthur R. Davis, project coordinator, UN 5-7251 or 5-8939.

► **HONORS:** Of the 3,200 undergraduates enrolled in the 1961 Summer Term, 215 were named to the Dean's Lists. Perfect averages were earned by 47.

► **VALUES:** Everyone interested is invited to attend the meeting of Phi Delta Kappa, professional fraternity in education, Tuesday, Nov. 7, at 6 p.m., HUB dining room "A." Dr. Luther Harshbarger, University chaplain, will speak on "Religion and Values in Public Education."

► **SSRC:** The fall meeting of the Social Science Research Center will be held Monday, Nov. 13, at 8 p.m. in HUB dining rooms A-C. Dr. Paul T. Baker, associate professor of anthropology, will speak on "Body Build and Behavior."

► **ENGLISH:** Richard Macksey, Johns Hopkins University, will address the English Colloquium, Thursday, Nov. 9 at 7:30 p.m. at the Nittany Lion Inn. He will speak on "Proust's Aesthetics."

► **SENATE:** The University Senate will meet Tuesday, Nov. 7 at 3:55 p.m. in Room 121 Sparks.

► **CORRECTION:** Enrollment at Wyomissing Center for the 1961 Fall Term is 177 instead of 154 as listed in the official enrollment figures shown in the Faculty Bulletin of Oct. 20. All summaries which include this total should be increased by 23, including the total University enrollment.

► **BOOKLETS:** When the new Faculty-Staff directory was distributed recently, booklets titled, "Area Code

(Continued on page three)

Altoonans support campus

THE Altoona Campus of the University is one of the outstanding stories of what a community can do for itself in spite of very real handicaps.

It was born in the "Great Depression" when the city, a one-industry community then, recognized that its children would suffer a serious economic disadvantage if they were unable to go to college. Few parents could afford to send their children away to school. Community leaders appealed to the University for help, among them Dr. C. C. Ellis, who was then the president of Juniata College in Huntingdon.

Two men who are today always associated in the public eye with the Altoona campus began their associations early — J. E. Holtzinger, president and general manager of the Mirror Printing Co. and a trustee of the University, as chairman of the Advisory Board since 1940, and Robert E. Eiche, who has been director of the Campus (then Center) since the first students attended classes at an old school building in 1939.

During the War years, two school buildings were sufficiently large to

This story on the Altoona Campus is the first in a series on Penn State's Commonwealth Campuses. Next week the New Kensington Center will be featured. While there is much in common between the several Campuses, each has a personality of its own. It is hoped these personalities will be revealed in the stories.

handle the undergraduate enrollment but the flood of GIs in 1946 and later demanded more extensive facilities.

As early as 1939 Altoonans had shown their interest in the new college by subscribing over \$5,000 to help renovate the Webster school building and add laboratories. But the real test came in 1946 when Ivy-side Park was made available for purchase. By personal subscription, mail campaign, house-to-house canvassing, and

collection and sale of waste paper, the people raised \$50,000 to purchase and partly remodel the Park into a College campus. A year later the veterans groups of Blair County organized to raise \$22,000 more to aid the remodeling program. By June, 1948, the entire operation was moved to the new site, and not only were regular undergraduate programs offered there but the extension activities of six counties were centered at the campus.

By 1955 it was obvious that Altoona had again outgrown its college facilities and another campaign was initiated to raise more than \$400,000 (the University promised to add \$150,000) to build once again. In spite of the fact that the city was then classed as an area of excess labor, the people demonstrated their deep interest in the college by their willingness to contribute their share.

Today the campus of 69 acres has a fine classroom building (named for E. Raymond Smith who owned the old Ivyside Park) and four other buildings and has plans for a new Student Union. From the student body of 119 and faculty of nine in 1939 the college has grown to a student body of 420 (two-thirds are baccalaureate degree four-year students) and a faculty of 26 full-time and 9 part-time teachers.



R. E. Eiche

About 60 per cent of the students are from Altoona, and another 20 per cent rent rooms in the city. Of the 20 per cent which commutes, the greatest distance is 75 miles. The male-female ratio is 5 to 1.

Most popular programs at Altoona are (1) education; (2) engineering; (3) business administration and (4) chemistry and physics. About a third of the students are enrolled in the associate degree Drafting and Design Technology or Electrical Technology programs.

The Faculty

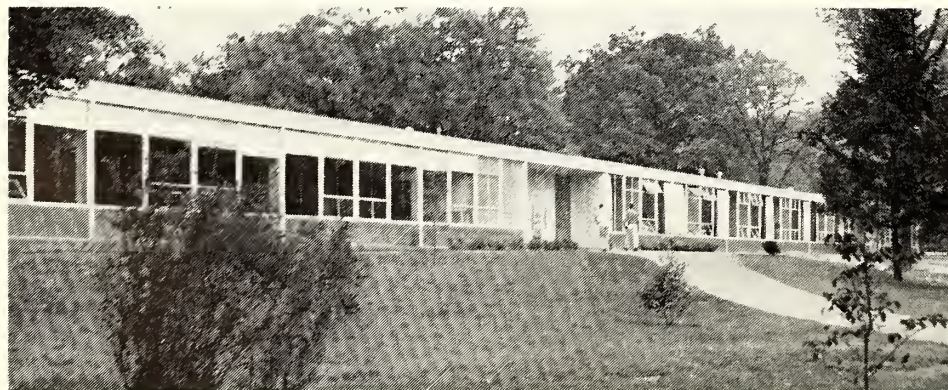
Of the 33 members of the faculty, the average experience in education is 17 years, and numbered among them is an ex-Army colonel and several others with many years of industrial and business experience. Among the part-time faculty members are an Altoona attorney, a Certified Public Accountant, two housewives who teach French and sociology and a Juniata College instructor. Ten of the faculty members are Penn State graduates and others are from West Point, University of Pittsburgh, Virginia, Western Reserve, Juniata, Bucknell, Penn. U. of California, and others.

Altoona is a city of 75,000 people, created by the Pennsylvania R.R. because as a halfway point between Pittsburgh and Harrisburg it was a natural stopping point to change crews and engines. The car manufacturing and locomotive repair shops are the largest in the world. Until the thirties the soft coal industry also flourished but today both industries have declined, the city has lost ten thousand people in 15 years, and a diversification has been necessary to keep the city alive.

The vigorous work of the city's leaders to restore and revitalize Altoona has been exemplified by its interest in its college and so the Campus is the center of many community activities, including active cooperation in the Blair County Arts Foundation. Many faculty members contribute their time to the community and the Campus buildings are often the scene of public events.

Other colleges in the area include St. Francis, Mt. Aloysius, and Juniata, and the Campus has cooperated with them a number of times in educational television programs. In October, Shakespeare's "Richard the Third" was sponsored in cooperation with Mt. Aloysius.

The Altoona Campus enjoys an enviable position in the city and much of the credit belongs to Bob Eiche, director, and the devoted faculty and staff.



E. Raymond Smith Building at Altoona was made possible when citizens raised over \$400,000 and University contributed \$150,000 in 1955.

Faculty artists

The 1961 series of programs at Commonwealth Campuses by faculty members of the University Park campus will be initiated by Dr. Harold E. Dickson, professor of art and architecture history, at the York Campus, Nov. 15. He will speak on "Painting as a Language."

To date, the following programs have also been listed:

Nov. 17, Bernard Oldsey, assistant professor of English, at Hazleton, on "Aspects of Fiction."

Nov. 17, Arts studio staff of George Zoretich, Bruce Shobaken, and Stuart Frost, on "Painting Demonstration and Discussion," at Altoona.

Feb. 16, Dr. Frederick R. Matson, assistant dean for research in the College of the Liberal Arts, on "An Archaeologist at Work," at Altoona.

Mar. 27, Arts studio staff at Behrend (Erie).

The Faculty Artists Series has been developed to make available to the communities served by the Commonwealth Campuses the services of members of the University Park campus. Among the other subjects listed as available are: the Christmas story in Medieval Art; the Art in Architecture; Featherbedding; economic life in the Soviet Union; the Composer and Music; the obscurity of Modern literature; and going to the theatre.

Annuity plan

A number of faculty and staff members of the University have taken advantage of the tax-free annuity plan announced in the Faculty Bulletin of May 20, 1960.

An employee can request the University to reduce his salary by not less than \$40 per month and use this amount to purchase an annuity for himself. The annuities are purchased from either the Equitable Life Assurance Society or the Teachers Insurance and Annuity Association according to the employee's choice.

Under this annuity purchase arrangement, the employee does not pay current Federal income tax on the amount his salary is reduced. For example, if an employee chooses to place \$50 per month into this type of annuity from a gross monthly income of \$400, Federal income tax would only be taken on his reduced salary of \$350 per month.

The income from the annuity is taxable when the annuity is paid at retirement. However, because of probable lower earnings plus double per-

(Continued on page four)

News —

(Continued from page one)

Handbook," published by the Bell Telephone Co., were also distributed. At the time, the number of copies was limited. Many offices have expressed a need for additional copies; they may obtain them now by calling Luther R. Robb, UN 5-2101.

► **MARINES:** All Marine Corps personnel in the University Park area, including active, retired and reserve personnel, are invited to attend a dinner and dance to observe the anniversary of the establishment of the Marine Corps Nov. 10, at the Nittany Lion Inn. The Corps was established in 1775.

► **ISRAELI:** The Israeli folksingers, Oranim Zabar, will appear at the Hillel Foundation, 224 Locust Lane, Saturday, Nov. 18, at 8:15 p.m. Tickets, at \$1 for members and \$1.50 for non-members, may be purchased at Hillel and at the HUB desk. Featured artist of the group is Geula Gill, who has recorded many hit records.

► **SEMINAR:** Mrs. Marjory L. Joseph, instructor in clothing and textiles, will address the Fall Term Home Economics Research Seminar, Tuesday, Nov.

7, in the subject, "Changes in Clothing as a Result of Cultural Factors in the Early 20th Century." The Seminar will be held at 1 p.m. in HUB dining room "C."

► **BIBLICAL:** Dr. David Noel Freedman, professor of Hebrew and Old Testament Literature at the Pittsburgh Theological Seminary, will address a University Christian Association Forum Saturday, Nov. 11, at 8 p.m. in the Chapel Lounge. He will speak on "The Relevance of the Biblical Covenant in the 20th Century."

► **ARMY:** Invitations for bids to construct an Army Reserve Center on University property were sent to contractors this week and the bids will be opened Nov. 28, according to an announcement from James E. Van Zandt, Congressman from the 20th District of Pennsylvania. A one-unit, one-story, 200-man training center building and one-story maintenance shop will be constructed. Site of the Center is about a mile northwest of Beaver Stadium, on a four-acre tract which will be leased by the Federal Government for 99 years. The authorized strength of the State College Reserve Unit is 220; actual strength is 169.

Mail —

(Continued from page one)

gesting the ways faculty members can help will be distributed soon.

"In recent months," Diehl explains, "the State College Post Office has found it necessary to discontinue all 'directorizing' mail, a service the post office is not required to perform and which has become physically impossible because of the tremendous increase in the volume of mail being handled.

"Directorizing requires the postal clerk to check various sources to find complete or correct information for mail which is undeliverable because of the address.

"In one day recently, the University mail room received 450 pounds of incorrectly addressed mail, each piece of which had to be handled individually and readdressed after checking files. The cost of such operation is getting excessive.

"More important, perhaps, is the fact that the mail delivery is delayed because of the necessary directorizing."

Diehl explains that it is well recognized that there are certain types of incoming mail which will be inevitably addressed incompletely; for example, correspondence from people

seeking help or information without knowing which person or office to appeal to.

"Such mail will be directorized as quickly as possible, as will all other mail," Diehl says. "It is in the area of what we call 'controllable mail' that the mail service can be aided by the faculty or staff member.

"For example, many faculty members get technical journals or other periodicals on a subscription list. If the faculty member has moved from the building appearing on the journal or if no building is indicated, then directorizing is necessary. The faculty member can speed delivery of his journal by informing the sender of his correct address."

The following form of address is recommended:

John Smith
212 Boucke
Pennsylvania State University
University Park, Pa.

Some addressing equipment cannot handle four lines. If such is the case, advise the mailer that the third line may be omitted.

Departments can also aid by making certain that outgoing mail contains the building name in the letterhead.

CALENDAR

Friday, Nov. 3

Players' production of William Saroyan's "The Cave Dwellers," 8 p.m. Centre Stage.
English Colloquium, 3:30 p.m., HUB Assembly Room. Dr. Maurice Cramer, professor of English, on "Book and Ring, in 'The Ring and the Book.'"

Saturday, Nov. 4

Varsity soccer, vs. Temple, 11 a.m.; varsity cross country, vs. Manhattan, 1 p.m.
Players' production of William Saroyan's "The Cave Dwellers," 8 p.m. Centre Stage.

Sunday, Nov. 5

Protestant Service of Worship 9 a.m., The Chapel. Rev. Richard Martin.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Honorable Richardson Dilworth, mayor of Philadelphia, on "An American Citizen's Role in the World Today."

Artists Series program by Rosalyn Tureck, pianist, 8:30 p.m., Schwab Auditorium.

Chess Club, 2 p.m., HUB card room.

University Club annual reception, 3-5 p.m.

Monday, Nov. 6

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A."

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Dr. George Tunell, University of California, on "The Mineralogy and Geochemistry of Mercury and Antimony Ore Deposits."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. S. C. Cowin, on "The Creep Function and the Relaxation Function; Vibratory and Static Loading."

Tuesday, Nov. 7

Home Economics Research Seminar, 12:30 p.m., HUB dining room "C." Marjory L. Joseph, on "Changes in Clothing as a Result of Cultural Factors in the Early 20th Century."

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Meeting of Phi Delta Kappa, educational fraternity, 6 p.m., HUB dining room "A." Dr. Luther Harshbarger, University chaplain, on "Religion and Values in Public Education." Open to all.

Wednesday, Nov. 8

Chess Club meeting, 7 p.m., HUB card room.

Gallery talk by Walton J. Lord, department of art, 7 p.m., HUB gallery, in connection with exhibit of arts faculty works.

Meteorology Seminar, 3:55 p.m., Room 202 Electrical Engineering. Dr. Henry Finch, professor of philosophy, on "History of Prediction."

Thursday, Nov. 9

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Martin Karplus, Columbia University, on "Molecular Magnetism and Electronic Structure."

Metallurgy Graduate Seminar, 1:10 p.m., Room 229 Mineral Industries. F. Dacheille, on "High Pressure Studies in the Solid State."

Talk by Richard Spencer on "Moslem-Soviet Interrelations in Southwest Asia," 12:30 p.m., Chapel Lounge, sponsored by Friends Peace Committee in world trouble spot series.

Friday, Nov. 10

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Walter K. Link, exploration manager, Petrobas, on "The Geology of the Amazon Basin of Brazil and Case History of Exploration 1954-1960."

Lecture by Dr. Jeanne Hersch, professor of philosophy, University of Geneva, Switzerland, on "Historical Consciousness and Sense for Truth," 8:30 p.m., Room 214 Boucke, sponsored by the department of philosophy.

Television Listings

(for week of Nov. 6)

HOME ECONOMICS

(WFBG-TV, Altoona, 9 a.m.)

Monday — Dr. Mary L. Dodds, Helen A. Guthrie, and Virginia A. Campbell, "Choose Your Weight — With Care."

Wednesday — Dr. Mary E. Fuqua, Moira C. Feeney, and Jerry M. Rivers, "Fats in Nutritive News."

Friday — Dr. Miriam E. Lowenberg, "Nine-Months Old at Birth."

FARM, HOME, and GARDEN

(WFBG-TV, Altoona, 1 p.m.)

Monday — Roger L. McChesney, Pennsylvania Livestock Exposition.

Tuesday — to be announced.

Wednesday — Homer Mazer, rat control.

Thursday — June Kohr, making coffee.

Friday — Margaret Isenhower, pies.

Annuity —

(Continued from page three)

sonal exemptions for man and wife at age 65, the amount of tax paid at the time should be lower.

Employees interested in learning more about this tax-free annuity plan should contact the Employee Benefits Division, 304 Old Main Building, telephone UN 5-6521.

Information center

A listing of all campus lectures, concerts, exhibits, athletic events and other public meetings of University-wide interest is maintained in the department of public information as an aid to those who organize such events.

Mrs. Elinor Chamberlain (309 Old Main, 5-7517) is in charge of the calendar, which was installed at the suggestion of chairmen of several lecture, musical, and dramatic programs to aid them in their planning and to avoid duplication of invitations and other contracts.

Those planning such events should keep Mrs. Chamberlain informed of the time, place, persons contacted, etc. In turn, they may obtain similar data for events already listed.

In addition to this file, Mrs. Chamberlain also maintains an "information center" designed to collect and disseminate data concerning the University. Such information as enrollment, building construction, financial reports, historic dates, and appropriations are only a few of the subjects on which data are collected. The information is obtained not only from University departments but also from State and Federal offices when it relates to Penn State's programs.

Faculty members are urged to assist in the development of the file.

faculty BULLETIN

Vol. 49, No. 16

Nov. 3, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Nov. 10

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Walter K. Link, exploration manager, Petrobas, on "The Geology of the Amazon Basin of Brazil and Case History of Exploration 1954-1960."

Lecture by Dr. Jeanne Hersch, professor of philosophy, University of Geneva, Switzerland, on "Historical Consciousness and Sense for Truth," 8:30 p.m., Room 214 Boucke, sponsored by the department of philosophy.

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Saturday, Nov. 11

Veteran's Day.

UCA Forum 8 p.m., Chapel Lounge. Dr. David Freedman, Pittsburgh Theological Seminary, on "The Relevance of the Biblical Covenant in the 20th Century."

Sunday, Nov. 12

Protestant Service of Worship, 9 a.m., Chapel. P. Barrett Rudd.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. David Freedman, Pittsburgh Theological Seminary, on "Let My People Go."

Artists Series program by Bayanihan Dance Company, 8 p.m., Recreation Building.

Chess Club meeting, 2 p.m., HUB card room.

Monday, Nov. 13

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Jerome Weinstein, Centre Daily Times editor, on "Factors Determining the Editorial Policy of the Centre Daily Times."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. M. G. Sharma, on "Experimental Techniques in Viscoelastic Material Investigations."

Social Science Research Center meeting, 8 p.m., HUB dining room "A." Dr. Paul T. Baker, associate professor of anthropology, on "Body Build and Behavior."

(Continued on page three)

Replacing lost books problem

LOST books are the bane of librarians, not only because they represent money no library can afford to lose but also because they are often difficult or impossible to replace and for a time, at least, the services of the book are lost to other potential readers.

Ralph W. McComb, University librarian, has found it necessary to institute several new security measures recently at the central library because the problem of lost books is becoming increasingly vexing. The entrance to the circulating stacks in Room 103 has been closed and all persons entering the stacks will be required to sign in and sign out. Also, each person will be required to show the books and brief cases in his possession as he leaves the stacks.

"We have taken these measures reluctantly," McComb says. "We always desire to operate the Library with as much freedom as possible, to make it as useful as we can. But we have simply lost too many books lately to continue without taking positive steps to protect the University property."

Every month the Circulating Department prepares a list of "missing" books. The list is reviewed in departments in the Colleges of Education, the Liberal Arts, Business Administration, and Physical Education primarily to determine which of the listed books must be replaced as quickly as possible.

"Replacement is often a time-consuming process and costly when we have to search through second-hand book lists, but if it is needed, we will make every effort to replace the book," McComb says.

The "missing" list is not all-inclusive, in view of the fact that it reports only those which were requested by someone and which could not be found over a three-month period. Nevertheless, in July, August, and September, 140 books were reported missing, of such wide range of interest as Sir Thomas More's "Utopia," Columbia University Teachers College Contribution's to Education, and three books on judo.

In all cases, these were books not on the shelves and not chargeable to any person. If to this list were added the number of books which have been charged out and are long overdue, the picture becomes even more pessimistic.

There are only two reasons books are lost, McComb says: (1) theft; (2) forgetfulness or carelessness.

"It is understandable that some persons on leaving the stacks may take a book without realizing it is in their possession, if they have other books. Or they may go past the check-out

desk without remembering they had a book to check out."

The Library maintains a constant check of its books to be certain that its own records are not at fault and when a book is to be listed as missing, a close search is made to determine whether it might be misfiled. The procedure of "reading the shelves" goes on constantly.

"Sometimes a person will return a book to the stacks himself, a practice we discourage, or leave it in one of the carrels, bypassing the circulation desk. As a result, the desk would not have a record of the book's return and list it as charged out for some time."

"By the process of reading the shelves we can determine if a book might have been returned to the wrong location and through a direct check we know whether it has been returned to the right place. We have procedures to check ourselves if the book was returned by mistake to one of the branch libraries or to the Schlow Library downtown."

The Library has help in its search, too, in that building eustodians in residence halls and academic buildings are on the alert for books left behind in lounges, rest rooms, and other public rooms.

In addition to the problem of lost publications, the library is confronted with the mutilation of books or periodicals.

"Mutilation is a particularly despicable process," McComb says, "because it implies an utter disregard for the property of others. It cannot be excused in any logical way."

"Unlike lost books, mutilated books and periodicals are the result of deliberate actions, not forgetfulness. We have found entire articles torn out of encyclopedias; there can be no excusing such actions."

The penalty for mutilation of Library books and materials, according to State law, is \$300 fine or six months imprisonment, indicating to some degree how serious the law considers the problem.

There is no pattern to the acts of theft and mutilation, McComb says, on which to base special protective measures. The latest steps taken will be an inconvenience to some people, but will serve to increase the usefulness of the materials by helping to make sure that they are either available immediately or can be found quickly.

NEWS IN BRIEF

► **ARTISTS:** The Philippine Dance Co. will present the next Artists Series program Sunday, Nov. 12 at 8 p.m. in Recreation Building. Tickets are on sale at the HUB desk. The program is built around folk dances of the Philippine Islands. The word Bayanihan is Tagalog, meaning an ancient custom of working together and in that spirit there are no "stars" or premiere dancers in the group. Among the more significant performances by Bayanihan was a three-week engagement on Broadway. It has also made both American and European tours. The current tour will take the group to 60 cities in 13 weeks. Tickets for the performance of the Baltimore Symphony Orchestra Sunday, Nov. 19, will go on sale Thursday, Nov. 16 at the HUB desk.

► **EXHIBIT:** The current exhibit of the art works of faculty members now going on at the HUB Gallery includes recent products of the following: Edward Adams, Andrew W. Case, John Cataldo, Yar Chomicky, Paul Edmonston, Stuart Frost, Mary E. Godfrey, George Gunther, William Hanson, Jules Heller, Marian Kramer, Neil Lieberman, Edward L. Mattil, Frank Mulvey, George Pappas, Marilyn Pappas, John Shaak, Bruce Shobaken, David Van Dommelen, Elizabeth Yeager, Edwin W. Zoller, George S. Zoretich, and Eleanore Zyglar. The exhibit concludes Nov. 17.

► **FRENCH:** Jean Gabin and Bourvil star in "La traversee de Paris," the movie sponsored by the NDEA French Institute to be shown Wednesday, Nov. 15, at 8 p.m. in Room 209 Home Economics South. English subtitles.

► **TRUTH:** Jeanne Hersch, professor of philosophy at the University of Geneva who was distinguished visiting professor of philosophy at Penn State in 1959, will give a lecture titled, "Historical Consciousness and Sense for Truth" tonight at 8:30 in Room 214 Boucke. Dr. Hersch is currently visiting professor of philosophy at Hunter College.

► **BICYCLES:** Faculty and staff members may have their bicycles inspected, along with those of students, Tuesday, Nov. 14, from 9 a.m. to noon and 1-4 p.m. The inspection, which will meet borough requirements, will take place in Parking Area 46, north of South Halls, east of Simmons Hall.

► **CHEMISTRY:** Dr. Herbert P. Broida, National Bureau of Standards, will address the Pennsylvania Section of the American Chemical Society, Thursday, Nov. 16 at 8 p.m. in Room 111 Boucke. He will speak on "Trapped Radicals — Past, Present, and Future."

► **BODY:** Dr. Paul T. Baker, associate professor of anthropology, will discuss "Body Building and Behavior" at the meeting of the Social Science Research Center Monday, Nov. 13 in HUB dining room "A" at 8 p.m. A social hour for members and invited graduate students will precede the program.

► **BIBLICAL:** The relevance of the Biblical covenant in the twentieth century will be discussed by Dr. David Noel Freedman, professor of Hebrew and Old Testament Literature at the Pittsburgh Theological Seminary Saturday, Nov. 11, at 8 p.m. in the Chapel Lounge in a University Christian Association Forum.

Construction

The Board of Trustees approved final plans for additions to Recreation Building and Electrical Engineering recently.

Three units, for which the General State Authority has authorized \$2,862,000, will be constructed south of Recreation Building. Bids will be requested after a review by various State agencies.

The General State Authority has authorized \$1,070,000 for the addition to the Electrical Engineering Building. The addition will be located east of the present building and be connected with it by an underground passageway on the ground floor and a covered walkway on the main floor level.

Evaluations

The University's self-appraisal program will move forward in the coming months with additional evaluations of chemical engineering, journalism, meteorology, and architecture, including landscape architecture.

To date, the departments of geography and of sociology and anthropology and rural sociology have been evaluated. All took place in October.

The program of departmental evaluations is expected to be completed by 1965.

The schedule for the near future shows: Chemical Engineering, Nov. 27-29; Journalism, Dec. 4-6; Meteorology, Jan. 15-17; and Architecture, including landscape architecture, Jan. 22-24.

Personnel matters

Alexander Worth, free lance journalist-historian and author of many books on contemporary history, will serve as distinguished visiting professor of history for the Winter and Spring Terms. He will teach three courses in history and one in political science. Among his books are "The Last Days of Paris" and "America in Doubt."

Dr. Pandharinath H. Prabhu, member of the faculty of Gujarat University, Ahmedabad, India, has been appointed visiting professor of psychology and of agricultural economics and rural sociology for the Fall, Winter and Spring Terms.

The following appointments to the faculty have been announced.

Robert Bernheim, assistant professor of chemistry.

Arthur F. Gianelli, instructor in physics.

Vila M. Harmon, instructor in home economics education.

Orville R. Keister, lecturer in accounting and business statistics.

Richard D. McInay, instructor in English.

Duane H. Whittier, instructor in philosophy.

Press Books Exhibit

Ten publications of the University Press will be on display Nov. 12-16 at the Hotel Muehlebach in Kansas City, Mo., at the Land-Grant Centennial Convocation of the American Association of Land-Grant Colleges and State Universities.

Penn State's publications will be included with those of 19 other university presses in the display. Theme of the exhibit is the international sharing of knowledge of good books. Those books which have been used widely around the world in their English editions and those which have been translated into foreign languages will be emphasized. Others will indicate the scope of the activities of Land-Grant institutions.

The books sent by the University Press are:

"Fiasco at Fredericksburg," by Vorin E. Whan, Jr.

"Life and Thought in Old Russia," by Marthe Blinoff.

"Underwater Acoustics Handbook," by Vernon M. Albers.

"Visio Pacis: Holy City and Grail," by Helen Adolf.

"The Joyce Country," by William York Tindall.

"Jean Giraudoux: His Life and Works," by Laurent LaSage.

"Philosophy and Argument," by Henry W. Johnstone, Jr.

"Mosaic and Other Poems," by Frederic Will.

"Toward Gettysburg: A Biography of General John F. Reynolds," by Edward J. Nichols.

"Rehabilitation Center Planning: An Architectural Guide," by F. Cuthbert Salmon and Christine F. Salmon.

Centennial Exhibit



Ralph W. McComb, left, University librarian, and Reed Ferguson, director of University relations, examine a copy of the Morrill Act which is the foundation for the Land-Grant College system. The Act was signed by Abraham Lincoln July 2, 1862. An exhibit in the lobby of Pattee Library calls attention to the up-coming Centennial which is being observed nationwide. Ferguson is the chairman of the University's Land-Grant Centennial Committee.

Lecture series

Archibald MacLeish, three-time Pulitzer prizewinner in poetry and currently Boylston Professor of Rhetoric and Oratory at Harvard University, will open the 1961-62 University Lecture Series Tuesday, Nov. 28, at 8:30 p.m. in Schwab Auditorium.

Other lecturers in the series are:

Luther H. Hodges, Secretary of Commerce, Sunday, Feb. 11.

Eric Sevareid, CBS news analyst with a program, "The Shape of Things to Come," Saturday, Feb. 17.

Senator Hubert H. Humphrey, Democrat, Minnesota, and Senator Karl E. Mundt, Republican, South Dakota, to debate a current subject.

Tickets for all these lectures, as for Artists Series programs, will be available to the public in limited quantity at \$1.25 at the HUB desk.

MacLeish is one of America's best known poets. One of his verse plays, "J.B.," which was Pulitzer Prize winner, was given last year on the Artists Series and presentations in both the afternoon and evening played to a full house.

Among his honors also, MacLeish has received the National Book Award for his poetry.

He has served as Librarian of Congress, Assistant Secretary of State, and was the first United States member of UNESCO's executive council.

Thespians

The Penn State Thespians will present the Broadway musical comedy, "Can-Can," book by Abe Burrowes and music and lyrics by Cole Porter, Thursday, Friday, and Saturday, Nov. 16, 17, and 18 at 8:00 p.m.

Tickets will go on sale at the HUB desk Monday, Nov. 13 at 1:30 p.m. Prices are \$1.25 for Thursday and \$1.50 for Friday and Saturday.

"Can-Can" is set in the Montmartre district of Paris at the turn of the century. It concerns the adventure of a judge and his client, owner of a cafe, in their encounter with Paris courts.

Woodcuts

Ansei Uchima, whose art works are in the collections of the Art Institute of Chicago, Rijksmuseum of Amsterdam, Rockefeller Foundation, Library of Congress and many others, will present a one-man show of his woodcuts, opening at the HUB Gallery Nov. 21 and continuing until Dec. 5.

Uchima will give two demonstrations of the art of the color woodcut, to open his show, at 2:30 and 7 p.m. Nov. 21, in the HUB ballroom. The public is invited.

Uchima has been in more than 60 exhibitions, including 12 one-man shows, 7 awards, and 5 internationals.

Calendar —

(Continued from page one)

Tuesday, Nov. 14

Meeting of Penn State Chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. H. Y. Hunsicker, Aluminum Company of America, on "New Aluminum Alloys and Products."

College of Home Economics faculty meeting, 3:55 p.m., Room 209 Home Economics South.

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. I. Jackson, on "Application of Computers in the Mining Industry."

Plant Science Club meeting, 7:30 p.m., Room 11 Tyson. Dr. Robert T. Duquet, assistant professor of meteorology, on "The January Thaw."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. H. Ehrenreich, Semiconductor Studies, General Electric Co., on "Band Structure, Collective Excitations, and the Optical Properties of Germanium and Silicon."

Wednesday, Nov. 15

NDEA French Institute movie, 8 p.m., Room 209 Home Economics South. "La traversée de Paris," with English subtitles.

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Nov. 16

Thespians' production of Cole Porter's "Can-Can," 8:00 p.m., Schwab Auditorium.

Metallurgy Graduate Seminar, 1:10 p.m., Room 229 Mineral Industries. Dr. Frank Dachille, on "High Pressure Studies in the Solid State."

Meeting of Central Pennsylvania Section, American Chemical Society, 8 p.m., Room 111 Boucke. Dr. Herbert P. Broida, National Bureau of Standards, on "Trapped Radicals — Past, Present, and Future."

Meditation Chapel Choir program, 4 p.m., The Chapel.

Chemistry Colloquium 12:40 p.m., Room 302 Whitmore. Dr. Robert Parry, University of Michigan, on "Ammonia Addition Compounds of Boron Hydrides and their Derivatives."

Friday, Nov. 17

Thespians' Show, Cole Porter's "Can-Can," 8:00 p.m., Schwab Auditorium.

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Television Listings

(for week of Nov 13, WFBC-TV, Altoona)

HOME ECONOMICS

9 - 9:30 a.m.

Monday — Food as children see it. Dr. Miriam E. Lowenberg and Moira C. Feeny.

Wednesday — Child's play, with Mary Alice Russell.

Friday — Dishes and Dialect, with Margaret Batjer Jennings.

FARM, HOME, and GARDEN

1 - 1:30 p.m.

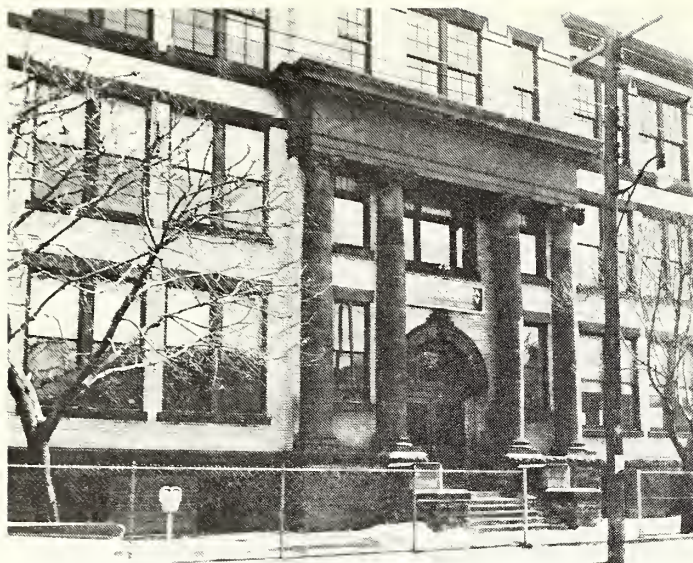
Monday — John Holbert, Wayne Hinrich, the soil test.

Tuesday — Ralph Patterson, sprayers and dusters.

Wednesday — John Tait, Farm — City Week.

Thursday — Gordon Walker, orchard mice control.

Friday — Paul Reber, house plant diseases.



Modest beginning in a school building at New Kensington.

New Kensington Center



E. E. Heide

IN contrast to the history and purposes of the Altoona Campus (described in last week's issue of Faculty Bulletin), the New Kensington Center is one of the newest members of Penn State family and its program is directed to the associate degree, rather than baccalaureate, student.

There are other contrasts. The New Kensington Center is in a community virtually surrounded by other colleges and universities — Pitt, Carnegie Tech, Duquesne, Indiana State and Slippery Rock — all institutions which have been established for many years.

Also, New Kensington itself is only a third the size of Altoona, but much less isolated from other population centers.

These facts would seem to suggest that there is little in common between the Altoona Campus and the New Kensington Center, but basically they exist for the same reason — the community believed, and demonstrated, that it had a need for a school beyond the public school system.

The New Kensington Center was born in 1958, after the then General Extension staff surveyed the high schools of the area and demonstrated to the satisfaction of the New Kensington Chamber of Commerce and other civic groups as well as to the University's Board of Trustees that a real need existed.

By September, classes were ready to begin. Much of the credit for the accomplishment of the Center in such a short time is given to Mrs. Elizabeth Blissell, executive director of the Chamber of Commerce, and other community leaders, who enlisted the aid of business and industry, professional people, Parent Teachers Associations, and civic clubs to put across a fund drive. Ultimately they collected \$40,000 to renovate an old school building in the community to make a start.

Seventy-five students began their programs in the school and there were two full-time and three part-time instructors. Eugene Heide, then administrative assistant in Adult Education, was named administrative head of the Center, a position he still holds.

The first class of 28 was graduated and granted associate degrees in 1960; about a third were employed in the immediate area in industry, the others leaving the area and many the State.

Today the students at New Kensington are, for the most part, the first of their families to go to college. They commute (with the exception of only a very few who rent rooms near the Center) from homes as far as 35 miles away but largely within a ten-mile radius. It is an all-male student body at present, specializing in drafting and design technology or in electrical technology.

Many of the parents of the students are mill workers, miners, or other working class people. The Center serves parts of five counties — Allegheny, Armstrong, Butler, Indiana, and Westmoreland — and the area economy is based on a mixture of agricultural and industrial incomes, with a heavy concentration of research and development laboratories.

The present faculty consists of five full-time and two part-time instructors, whose experiences in education range from one to seven years. They are graduates of the University of Pittsburgh, Indiana State College and Toledo University. It is essentially an engineering faculty with varied work history. Because they commute, students spend little time, other than class time, at the Center, but Heide has developed a weekly seminar which features speakers, films, records, etc. An Artists Association frequently makes available exhibits of contemporary art, which are hung in the first floor gallery.

The community leaders hope some day to have a permanent campus (the school building is leased for \$1 per year from the School Board) and a broader program. The modest beginning is much like that of Altoona's facility and it has come into being for the same reason — a recognition that higher education is the hope for many of the area's young people.

faculty BULLETIN

Vol. 49, No. 17 Nov. 10, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

NEWS IN BRIEF

- **GRADUATION:** Fall Term Commencement Exercises will be held Saturday, Dec. 9, at 10:30 a.m., in Recreation Building. About 600 graduates, including 200 candidates for advanced degrees, will attend. No tickets will be needed.
- **SLIDES:** The State College Color Slide Club will see a demonstration of new photographic equipment and conduct its regular monthly slide competition at its meeting Monday, Nov. 20 at 7:30 p.m. in the Mineral Industries Auditorium.
- **INDIA:** The Deevali Festival of Lights will be celebrated by the Friends of India Association Saturday, Nov. 18, at the Lutheran Student Center. An Indian dinner will be served at 6:30 p.m., followed by a short talk and variety show.
- **SQUARE DANCE:** The Graduate Student Association is sponsor of a graduate student-faculty square dance Saturday, Nov. 18, at 9 p.m. in the HUB ballroom. Beginners and experts are welcome.
- **PEACE CORPS:** Mrs. Maris Rose, Peace Corps representative, Washington, D. C., will speak on the present and future of the Peace Corps in a meeting of interest to students and faculty Tuesday, Nov. 21 at 8:30 p.m. in Room 10 Sparks. A question period will follow the discussion.
- **CENTENNIAL:** A 16-page brochure of facts and figures on the Land-Grant Centennial, which began
(Continued on page three)

Social security

University faculty and staff members not presently covered under Social Security may now obtain such coverage. Recent Federal action makes this possible.

Information concerning the privilege of obtaining coverage was given last week to many employees; others who were not reached can obtain the necessary forms for electing Social Security from the Employee Benefits Division, 304 Old Main, 5-6521.

A "Statement of Preference for Social Security Coverage" must be signed in duplicate by the employee. The preference is the employee's "desire to transfer into the group (of employees) covered in the plan for integration of Federal Social Security with the State Employees' Retirement System . . ." Some other employees, as noted below, not members of SERS are also eligible to sign the preference form.

Three groups of persons may be affected by the new privilege:

1. Those who are members of the SERS but failed to state a preference of "yes" on or before Aug. 27, 1957. Many persons who were eligible at that time and chose not to be covered under Social Security find that conditions have changed sufficiently to warrant their election of the privilege now.
 2. Those who at present have a personal option to join SERS but at this time wish to elect only social security coverage.
 3. Those who exercised a personal option to join SERS after Aug. 30, 1957. Significance of this group is that these persons at the time of their joining were given Social Security coverage only from the date of their employment.
 4. Members of the Ordnance Research Laboratory Retirement Plan.
- Social Security coverage will be retroactive to Jan. 1, 1956 for those who make the election now.

Award to Torkelson

Dr. Gerald M. Torkelson, professor of education, received the PAVATE award for leadership in audio-visual education by the Pennsylvania Audio-Visual Association for Teacher Education recently.

The award consists of a key and a total of \$500 worth of educational films, presented by McGraw-Hill Films, Inc., and the Encyclopedia Britannica Films, Inc. The films are to be awarded to an educational institution to be selected by Dr. Torkelson.

Band Day

Sixty high school bands, with 5100 youngsters, will invade the campus tomorrow for a parade in the morning and presentations at the Penn State-Holy Cross football game in the afternoon.

The parade will be held at 9:30 a.m. and follow a route from the entrance to the campus at Pollock Road and N. Atherton St., eastward on Pollock to McAllister Building, south to College Ave., west to Burrowes Road, and north to the disbanding point at Burrowes and Pollock Roads.

Parking areas 1 and 11, on the western edge of the campus, will be closed to general parking in order to permit the 150 buses and 140 cars carrying the bandsmen to park until they are ready to move to the Stadium, about 11 a.m.

Motorists are advised to remain off of roads on the western part of the campus during the parade.

Symphony program

The Baltimore Symphony Orchestra will be directed by Peter Herman Adler for its concert Sunday, Nov. 19 at 8 p.m. in Recreation Building.

Violinist Eriq Friedman will be featured with the orchestra in Brahms' Concerto in D-Major, Opus 77.

Other selections will be Haydn's "London" Symphony, No. 104 in D-Major and Rondo Ostinato, by Theodore Berger, contemporary Viennese composer.

Tickets are on sale at the HUB desk.

This is the final Artists Series program of the Fall Term. The next program will be given Jan. 12 by cellist Janos Starker.

Hummel honored

Dr. Floyd A. Hummel, professor of ceramic technology, is a co-recipient, with Dr. B. S. R. Sastry, of Hyderabad, India, of the 1961 S. B. Meyer Award given annually by the Glass Division of the American Ceramic Society.

The award is made for the outstanding paper in the field of glass technology published during the year. The paper by Dr. Hummel and Dr. Sastry discusses studies of lithium oxide systems, and was published in the January, 1960, issue of the Journal of the American Ceramic Society.

Dr. Sastry received his doctor of philosophy degree in ceramic technology three years ago, working under Dr. Hummel. He is now with the Regional Research Laboratory in Hyderabad.

Senate Minutes

Meeting of November 7, 1961

The University Senate met at 3:55 p.m. on Tuesday, November 7, 1961, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the October 3, 1961 meeting were approved as printed in the Faculty Bulletin for October 13, 1961. One hundred seventy-eight senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. M. Elias (V. L. VanHorn, Jr.), Iline Fife (R. S. Brubaker), D. H. Ford (F. J. Ball), G. W. Harvey (R. H. Smith), J. R. Hayes (J. M. Schempf), J. J. Kaufman (M. E. Rozen), B. B. Lethbridge (R. S. Stout), R. C. Miller (T. A. Long), James Montgomery (Ruth H. Smith), J. J. Schanz, Jr. (J. F. McDivitt), O. A. Schmidt (R. A. Bartoo), E. P. Strong (W. M. Hench), Edna Sommerfield (Janice Chennault), G. L. Thuring (D. L. Raphael), L. D. Tukey (W. H. Wilson), and W. R. Weisman (G. S. Zoretich).

New Senator

A letter was read from the College of Physical Education and Athletics that H. B. White had been elected to replace E. E. Baer for the 1961-1964 term.

A letter was read from the College of the Liberal Arts that Orrin Frink had been elected to replace H. E. Dickson for the Winter and Spring Terms of 1962.

A letter was read from the Senate Committee on Committees recommending that W. J. Schrader replace R. W. Kautz on the Senate Committee on Committees; that J. K. Pasto replace J. E. Livingston on the Senate Committee on Academic Standards; and that G. W. Harvey replace E. E. Baer on the Senate Committee on Military Instruction. These recommendations have been approved by President Walker.

The secretary read the following letter from T. Reed Ferguson, Director of University Relations:

This University along with all of the 68 Land-Grant Colleges and Universities of the United States is commemorating, during the 1961-62 academic year, the Centennial of the signing of the Land-Grant act by President Abraham Lincoln on July 2, 1862.

Evan Pugh, the first President of Penn State, with Jonathan Turner of Illinois, was one of the pioneers in emancipating higher education from the rigid molds of the classical tradition. As a scientist, not only did Evan Pugh develop the idea of a new type of educational institution, but, as President of this institution, he helped secure passage of the Morrill Land-Grant Act in 1862 and Pennsylvania's acceptance of the act in 1863. As a result of the foresight of men like Dr. Pugh, Land-Grant Colleges and Universities today enroll one out of every five college students in the entire country. They grant 40 per cent of all the doctor's degrees in all subjects; and half of all those granted in the sciences, engineering and health professions.

Would it not be appropriate for this University to honor Dr. Pugh during the Land-Grant Centennial year? The Centennial Committee has asked me to request that the University Senate consider sponsoring a dinner in February to commemorate the birth of Dr. Evan Pugh. A number of University Presidents as well as several former

Pugh Award winners from our own institution might be considered possible speakers.

The Centennial Committee has asked me to offer assistance if the Senate should wish to sponsor a dinner honoring Dr. Pugh.

REPORTS OF STANDING COMMITTEES

Since J. R. Hayes, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, was out of town and the Vice Chairman, L. Jeanne Riebel, was ill, the secretary presented the INFORMATIONAL REPORT ON CREDIT ALLOWANCES FOR STUDENTS ENTERING THE ARMED SERVICES ON A NON-VOLUNTARY BASIS, which had been distributed with the agenda as Appendix "C." Since this was an informational report no action was necessary by the Senate. The report is as follows:

CREDIT ALLOWANCES FOR STUDENTS ENTERING THE ARMED SERVICE ON A NON-VOLUNTARY BASIS

(The following regulations are essentially a revision of those passed by the Senate on March 1, 1951. Editorial changes have been made to make the regulations consistent with the term program)

1. Seniors who complete satisfactorily at least half of their final term's work, including residence, and who enter the armed forces, if above grade in all subjects at the date of withdrawal, are eligible for graduation.

2. Seniors, who have met all graduation requirements with the exception of a deficiency of not more than three credits and not more than nine grade points, or who have met all graduation requirements with the exception of a deficiency of not more than nine grade points, are exempted from removing these deficiencies, provided they enter the armed services, and will, on recommendation of their dean, be graduated.

3. Any regularly enrolled student who fails to complete the work of a term by reason of entering the armed services, and

(a) who has been in attendance, during the term, fewer than five weeks but not less than three weeks, and who has scheduled for at least ten credits, and who was above grade in all subjects at the time he left the University, will receive elective credit at the rate of one credit per week of attendance;

(b) who has been in attendance not less than five weeks nor more than seven weeks of the term will receive half credit for all work in which he was above grade at the time he left the University;

(c) who has been in attendance seven or more weeks will receive two-thirds credit for all work in which he was above grade at the time he left the University, but may, on the recommendation of his dean, receive full credit for the term.

(d) Fractional credits earned under these regulations will be in courses scheduled at the time the student leaves, or in general elective courses, as designated to the Recorder by the Dean of the College in which the student is enrolled.

4. Fractions of credits resulting from rules 3b and 3c are handled as follows: if less than one-half, disregard; if more than one-half, considered as full credit.

5. For students who enter the military services, grades and grade points will be recorded but not used in computing the scholastic average, unless the student receives full credit for the term.

6. Meritorious cases not covered by the above regulations may be referred to the Senate Committee on Academic Standards for consideration.

H. J. Read, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, gave a verbal report for the Committee in which he discussed the request made by the student members of the Committee concerning the lengthening of the Thanksgiving Holiday. He stated that the matter was studied but that no information previously unavailable to the Committee had been presented. He stated that the Committee was not at this time recommending a change in the Thanksgiving Holiday policy.

Mr. Read further commented that there has been some dissatisfaction with the length of time between classes. An interval of 15 minutes rather than 20 minutes has been suggested with adding of the extra time to the lunch period. The Committee would like to receive, in writing, thoughts of the Faculty in regard to this time interval.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and stated that the report contained three items, I A, I B, and I C. He moved that items I A and I B be adopted by the Senate. The motion was seconded and passed. He stated that item I C was for the information of the Senate and needed no action. The complete report is on file in the office of the secretary.

R. K. Murray, Vice Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY presented the report which had been distributed with the agenda as Appendix "B" concerning POLICY ON ASSOCIATE DEGREE PROGRAMS. He moved that the report be accepted and that the policy statement be adopted. The motion was seconded and passed. The policy statement is as follows:

POLICY ON ASSOCIATE DEGREE PROGRAMS

As a result of its study of the associate degree problem, the Senate Committee on Educational Policy makes the following policy recommendations:

1. The Pennsylvania State University offers two types of associate degree programs outlined in the attached report (Types I and II). Such associate degree programs may be occupational or terminal in nature, (Type I), or may represent an integrated preparation base for further education in college or university, (Type II). All such programs must originate with the colleges and must be specifically approved by the Senate as "associate degree" programs. They must be of at least six terms in duration and contain a minimum of 60 semester credits, but no more than 75, and must meet the general education requirements previously passed by the Senate for associate degree programs. (See Senate Minutes Faculty Bulletin May 12, 1961.) Credit load limits per term are the same as those for baccalaureate degree students; the minimum graduation average is 2.0. (The Committee suggests that a candidate in a Type I associate degree program be designated Associate in some specialty (e.g. Electrical Technology, Hotel Administration, etc.). A candidate in a Type II associate degree program should be designated an Associate in Arts or an Associate in Science as the case may be.)

2. The University remains primarily concerned, at the undergraduate level, with baccalaureate instruction and its admission policy should continue to reflect this emphasis. No candidates for the associate degree should be admitted to the University Park Campus when facilities exist elsewhere within the University. However, the admissions

policy for associate degree programs of both types may be different than that for any baccalaureate degree program. Such an admissions policy should reflect the local circumstances involved, the needs of the community or student body to be served, and instructional resources available. Such an admissions policy should be independent of any baccalaureate admissions policy, should permit a flexible standard of admissions to the various programs, and should be dependent only upon the ability of the University or its component parts to match available resources with student need and with competency to pass associate degree programs.

3. Transfer of a student from an associate degree program to a baccalaureate degree program may be accomplished at any time, under regulations governing change of curriculum, if the student meets all the admission requirements for the baccalaureate program. Other students may transfer only after completion of the associate degree and acceptance by the College of their choice. The term standing of a transfer student together with the credits and courses acceptable towards a baccalaureate degree will be determined by the Dean of the College in which the student enrolls. Any baccalaureate degree student, upon the interruption of his baccalaureate degree program, may apply for any associate degree for which he might qualify, with the approval of the dean of his College.

The complete report is on file in the office of the secretary.

NEW BUSINESS

R. H. Wherry moved

That The Pennsylvania State University Senate sponsor a dinner in February, 1962, honoring the first President of Penn State, Dr. Evan Pugh.

The motion was seconded and passed. President Walker asked the Senate Committee on Faculty Affairs to confer with T. R. Ferguson, Director of University Relations, to put this action into operation.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

D. G. McGarey, Chairman of the SENATE COMMITTEE ON FACULTY AFFAIRS, read a letter which he had received from President Walker asking that he convene the elected membership of the Senate at the conclusion of the December 5 meeting for the purpose of selecting a replacement for L. A. Fouraker to serve on the standing joint committee on tenure of the faculty and administration. Mr. McGarey informed the Senate that he would convene this meeting on December 5.

Harvey Klein, student member of the Senate Committee on Calendar and Class Schedule, requested the Senate to extend the Thanksgiving Vacation from one to two and one-half days and presented reasons why a large proportion of the students were making this request. He was followed by Dennis Foianini, President of the Student Government Association, and ex officio member of the Senate Committee on Student Affairs, who also spoke in favor of an extended vacation period. No action was taken on the request made by the two students.

H. K. Schilling moved that the meeting adjourn. The motion was seconded and passed.

The next regular meeting of the Senate will be on Tuesday, December 5, 1961 at 3:55 p.m.; the agenda will be distributed on November 21, 1961. The meeting adjourned at 4:18 p.m.

Robert G. Bernreuter, Secretary

CALENDAR

Friday, Nov. 17

Thespians' Show, Cole Porter's "Can Can," 8:00 p.m., Schwab Auditorium.

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Dr. H. H. Niminger, investigator of meteoritic phenomena, Sedona, Ariz., on "Geology and Cosmic Blitz."

Saturday, Nov. 18

Football, vs. Holy Cross, 1:30 p.m. Parents Day and Band Day.

Thespians' Show, "Can Can," 8 p.m., Schwab Auditorium.

Graduate Student Association square dance for faculty and graduate students, 9 p.m., HUB ball room.

Players' production of William Saroyan's "The Cave Dwellers," 8 p.m., Center Stage.

Friends of India Association celebration of Deepali Festival of Lights, 6:30 p.m., Lutheran Student Center.

Sunday, Nov. 19

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Sam Gibson.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Samuel D. Proctor, president, North Carolina A. and T., on "The Christian Basis for Hope."

Artists Series program by Baltimore Symphony Orchestra, 8 p.m., Recreation Building.

Monday, Nov. 20

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Allan L. Rodgers, professor of geography, on "Southern Italy: A Case Study in Government Subsidization of Industrial Development." Tickets at HUB desk.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. M. G. Sharma, on "Methods for the Evaluation of Distribution Functions from Phenomenological Tests."

Tuesday, Nov. 21

Peace Corps meeting, 8:30 p.m., Room 10 Sparks. Mrs. Maris Rose, Peace Corps representative, Washington, D.C., on the present and future of the Peace Corps.

Graduate School faculty meeting, 3:55 p.m., Room 121 Sparks.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Will E. Mason, professor of economics, on "The Neo-Classical Inversion of Classical Monetary Theory."

Demonstrations of the art of color woodcut by Ansei Uchima, 2:30 and 7 p.m., HUB ball room.

Soccer, vs. Pittsburgh, 2:30 p.m.

Physics Colloquium, 4:15 p.m., Room 105 Walker. Dr. J. H. Vandermerwe, visiting professor of physics, University of Virginia, on "Stresses in Overgrown Films on Crystalline Substrates."

Meeting of Penn State chapter, American Association of University Professors, 8 p.m., Room 124 Sparks. Peggy Heim, staff associate at national headquarters, on "National Faculty Salary Rating Schedule."

Thursday, Nov. 23

Thanksgiving Day. Offices closed, no classes.

Showing of the Russian film "Ballad of a Soldier," HUB Assembly room, three showings: 3, 7, and 9 p.m. Sponsored by the International Film Committee.

News —

(Continued from page one)

officially this week during the annual convention of the American Association of Land-Grant Colleges and State Universities, has been published by the University. The brochure serves as a handy reference for those who plan to speak or write on the subject. Copies will be made available on request to the Department of Public Information, 309 Old Main.

► **LIBRARY:** Pattee Library will be closed Thursday, Nov. 23, in observance of Thanksgiving Day, as will all branch libraries.

► **THANKSGIVING:** At the Hetzel Union Building Terrace Room, Thanksgiving Dinner will be served Tuesday, Nov. 21. Both the Lions Den and Terrace Room will observe regular Sunday hours on Thursday, Nov. 23. For the Terrace Room these hours are 12 noon to 2 p.m. and 5:00 to 6:45 p.m. At the Lion's Den the hours are 9 a.m. to 10 p.m. Roast turkey will be part of the menu Nov. 23.

► **MOVIE:** Penn State was well represented at the Land-Grant Centennial Convocation this week in the documentary film concerning the Land-Grant movement. The film was made especially for the U. S. Information Agency for showing overseas and was premiered at the convocation. Many scenes at University Park and nearby, with faculty and staff members featured, were included in the film. Also shown at the Convocation was the film produced by the University, "Land Grant Mural."

► **BOOKS:** Dr. Henry Finch, professor of philosophy, is featured in a new radio series heard over Station WDFM (FM band) at 9:05 p.m. each Tuesday. The series is titled "Books and Ideas."

Television Listings

(for week of Nov. 20, WFBG-TV, Altoona)

HOME ECONOMICS

9 - 9:30 a.m.

Monday — Lillian B. Larson, Art in Dress.

Wednesday — Dr. Ruth E. Gates, Costumes and Customs, with international students.

Friday — Dr. Gates, Communications Through Clothing.

FARM, HOME, and GARDEN

1 - 1:30 p.m.

Monday — Harold Loekhoff, count your blessings.

Tuesday — Paul Margolf, carving turkey.

Wednesday — Robert Kimble, deer hunting manners.

Friday — Thomas Kelly, barn feeding dairy cattle.

Items of Interest

Articles and Papers

- ALBINSKI, H. S., political science, an article on "Australia and the Dutch New Guinea Dispute," in the Autumn issue of International Journal, of the Canadian Institute of International Affairs.
- BEITTEL, K. R., art education, a paper on "Curriculum Experimentation in Art Education as Seen Through Recent Research," in the Conference Proceedings of the National Conference on Curriculum Experimentation, University of Minnesota, October.
- a paper on "Factor Analyses of Three Dimensions of the Art Judgment Complex: Criteria, Art Objects, and Judges," before the American Society for Aesthetics at Wayne University.
- BOWHILL, S. A., electrical engineering, a paper on "Some Aspects of Diffusive Equilibrium in the Thermosphere" at the Fall meeting of the International Scientific Radio Union, U. S. Commission 3.
- a seminar paper titled "Ionic Reactions Revealed by their Ionospheric Effects."
- CHENG, T., zoology, a paper in the August issue of the Journal of Economic Entomology, on "A Three-Year Study on the Effect of Fly Control on Milk Production by Selected and Randomized Dairy Herds, with E. M. Kesler, dairy science.
- a paper titled "Fly Control in Dairy Barns Sprayed with Dimethoate Residues in Milk," with H. F. Enos, Jr., agricultural and biological chemistry.
- CORSO, J. F., psychology, a paper at the fall meeting of the Acoustical Society of America on "Information Processing with Simultaneously-Presented Auditory Tasks."
- DAVIDS, N. W., engineering mechanics, a paper at the Fifth Hypervelocity Impact Symposium at Denver, on "Shock Wave Propagation under Hypervelocity Impact."
- GOLATZ, H. J., industrial relations, an article titled "How Much do they Take Back with them," in the Fall issue of Labor Education Viewpoints.
- GREENE, D. C., Ordnance Lab, an article, "Vibration and Sound Radiation of Damped and Undamped Flat Plates" in the October issue of the Journal of the Acoustical Society of America.
- HERMAN, L. M., and Zeigler, M. L., student affairs research, an article in the October issue of The American Personnel and

Guidance Journal on "The Effectiveness of Interpreting Freshman Counseling Test Scores to Parents in a Group Situation."

- KLAUS, E. E., Petroleum Refining Lab, a paper with E. J. Tewksbury and M. R. Fenske, on "Preparation, Properties, and Some Applications of Super-Refined Mineral Oils" at the Eighth Annual Lubrication Conference of the A.S.M.E. and A.S.L.E.
- KUSPIT, D. B., philosophy, an article titled "Die Ideologische Bedeutung des Amerikanischen Friedenskorps" in the September issue of the Frankfurter Heft, Zeitschrift fuer Kultur und Politik.
- an article in Jahrbuch fur Amerikastudien, yearbook published by Carl Winter-Universitätsverlag, Heidelberg, on "Some Images and Themes in Hart Crane's 'The Bridge.'"
- MCAULAY, J. D., elementary education, a paper at the National Convention of the National Council for Geographic Education, on "Programmed Teaching, Teaching Machines and Geographic Education," Nov. 24.
- PRYBYLA, J. S., economics, an article in The Australian Quarterly, September issue, on "The Unemployment Problem in the United States."
- an article on some aspects of Communism, in Autumn issue of The Colorado Quarterly, University of Colorado.
- ROSE, ARTHUR, chemical engineering, a paper on "Purification of Liquid Mixtures by Membrane Separation" in a symposium of the Western Connecticut section, American Institute of Chemical Engineers.
- a paper on "Intravenous Fat Emulsions from High Purity Components" with Nicholas Pelick and R. F. Sweeny, at the Colorado annual meeting of the Surgeon General's Task Force on Intravenous Fat Feeding.

Lectures and Talks

- CARPENTER, C. R., DARS, an address before the Poor Richard Club, Philadelphia, on "Problems and Possibilities of Measuring Communications."
- CARZO, ROCCO, JR., management, talk on modern advances in organization theory and research before top management executives of the Centre de Productividad de Monterrey, Mexico.
- COOGAN, J. H., public information, a talk before the Penn State Club of Greater New York on "Penn State Today."

- FODERARO, ANTHONY, nuclear engineering, a talk summarizing his research on nuclear reactor containment at the Chicago meeting of the American Nuclear Society.
- HARNETT, A. L., physical education, a talk to public school teachers and nurses in State College, Erie, and Wilkes-Barre.
- KAFKA, ANDREW, Hazleton in English, a talk on "More Effective Writing Experience for College-Bound High School Students" before the Steering Committee of the Department of Public Instruction State English Committee.
- KARHAN, THEODORE, music, a talk titled "The String Program" at the Dauphin County Teachers Institute in Harrisburg.
- MCGEARY, M. N., political science, a talk titled "The Individual and Society" at a Conference for Executives of Employment Security" sponsored by the Brookings Institution, Williamsburg, Va.
- MCKINLEY, D. H., Business Administration, a talk on "State of the Economy," at the Pennsylvania Petroleum Association Management Conference in Philadelphia.
- MUELLER, E. W., physics, lecture before the New York State Section of the American Physical Society on the interpretation of the study of the atomic structure of metal surfaces as revealed by the ion microscope.
- READ, H. J., metallurgy, a talk on "The Mechanical Properties of Electrodeposits," at the annual Off-the-Record meeting of the Institute of Metals Group, Pittsburgh Section of the American Institute of Mining and Metallurgical Engineers.
- SMITH, W. M., 4-H Club, a talk, "Can Changing Families Build Changeless Values," at the annual conference of the North Carolina Home Economics Association, Nov. 10.
- a Miami University (Ohio) Convocation lecture on "Families Build Their Own Strengths," Nov. 16.
- SNYDER, W. U., psychology, four lectures at the three-day workshop on Psychotherapy and Counseling at Ohio State University under NDEA auspices, Nov. 15-17.
- TAYLOR, B. P., Penn State Foundation, a talk titled "Cultivation of Prospects" before the workshop on "The Big Gift" of the American College Public Relations Association in Chicago Nov. 6.
- TAYLOR, CLARICE G., hotel and institution administration, a talk on "Preserving Nutrients" at the Scotland School for Veterans' Children, Scotland, Pa.

faculty BULLETIN

Vol. 49, No. 18

Nov. 17, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY



faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

NEWS IN BRIEF

► **EVALUATION:** Dr. C. R. Carpenter, director of the Division of Academic Research and Services, was chairman of a seminar designed to evaluate the "Meet the Professor" television series at New York University's Gould House this week. The Seminar attracted 25 authorities in education and television and was made possible by a grant from the Fund for the Advancement of Education. The television program is a cooperative venture of the Public Affairs Department of the American Broadcasting Co. and the Association for Higher Education.

► **ELECTED:** President Eric A. Walker was elected president of the Engineers' Joint Council recently. Headquarters office for the organization, which includes ten member societies in its constituency, is in the new United Engineering Building, which was dedicated recently with Dr. Walker as speaker.

This week Dr. Walker is attending a meeting of the Advisory Committee on Higher Education to the Department of Public Instruction. Dr. Walker was recently appointed to the Committee by the Superintendent of Public Instruction, Dr. Charles H. Boehm.

► **STUDENT HELP:** Some students who are planning to remain in the State College area from Dec. 7 to Jan. 3 between terms have already indicated their desire to be employed. John A. Yeatman, assistant to the director of student aid, asks that local residents who can use student help during this period request help

(Continued on page two)

Enrollment

Changes in the enrollment figures tabulated in the October 20 issue of Faculty Bulletin have been announced by the Office of the Registrar.

1. Enrollment of two-year, associate degree students at Wyomissing Center has been increased by 23, from 154 to 177.

2. Enrollments of baccalaureate students at Altoona and at Pottsville have been increased by one each.

3. Total enrollment of baccalaureate students at "Other Campuses" has therefore increased by two, to 1925, and a total enrollment of associate degree students at "Other Campuses" has increased by 23 to 1630. Total combined enrollment at "Other Campuses" has increased by 25 to 3616.

4. Enrollment of Part-time Continuing Education classes has been increased from 1857 to 1946.

5. Total enrollment of the entire University is increased from 22,855 to 22,969.

Part-time Continuing Education enrollments now indicate the current status of these courses. In previous summaries of enrollments, it was necessary to use statistics of the previous semester in indicating these courses because generally they started some time after the semester began and could not be included in current figures.

German Sing

The 32nd annual Christmas Sing sponsored by the department of German will be held Sunday, Dec. 3, at 7:30 p.m. in Schwab Auditorium.

The traditional program will feature singing of carols by the audience, instrumental and vocal presentations, and the reading of The Nativity by Dr. Werner F. Striedieck, associate professor of German.

George E. Ceiga, University organist, will accompany.

Included on the program are a Bach aria by Dale Livingston, with accompaniment by James Martin, flute, and Anne Waldspurger, piano. Brahms' "Geistliches Wiegenlied" will be sung by Dorothy Muller, contralto, with Bertha Maraffie, viola, and Vicki Brown, piano.

Dr. Helen Adolph, professor of German, will tell "A Fairy Tale on Trees and Semantics."

A double quartet consisting of Joan Nesbitt, Juanita Sherk, Norma Condee, Nydia Finch, Roger Clisby, Arthur Thompson, Raymond Brown, and Dale Livingston will sing a Brahms cycle titled "Marienlieder fur Gemischeten Chor."

Lecture series

Archibald MacLeish, distinguished American poet, will open the 1961 Lecture Series Tuesday, Nov. 28, at 8:30 p.m. in Schwab Auditorium.

Three times winner of the Pulitzer Prize, MacLeish has had many other honors in his career, including the National Book Award for his poetry. He has served as president of the American Academy of Arts and Letters and is currently Boylston Professor of Rhetoric and Oratory at Harvard University.

MacLeish's Pulitzer Prizewinning verse-play "J.B." was performed in the Artists Series last year. This play also won the Antoinette Perry award in 1958.

In addition to his academic life, he has served in the government, as Librarian of Congress, as Assistant Secretary of State, and as the first United States member of UNESCO's executive council.

Tickets will go on sale to the public Saturday, Nov. 25 at the HUB desk, priced at \$1.25.

Art lecture

Sister M. Thomasita, O.S.F., called "the outstanding liturgical artist in the United States today," will speak to students and faculty Monday, Nov. 27 in the Home Economics Auditorium at 11:10 a.m. The lecture is open to all.

A coffee hour will be held in honor of Sister Thomasita at 10 a.m. in Rooms 34 and 35 Home Economics, sponsored by the departments of Home Arts and Art Education.

A teacher at Cardinal Stritch College, Milwaukee, Sister Thomasita is a sculptress and lecturer. In the past ten years she has executed hundreds of commissions as sculptress and gives fifty lectures a year.

A. E. Diem resigns

Albert E. Diem, vice president for business, has resigned, effective Jan. 31, 1962.

A 1935 graduate of the University, Diem served with the General Electric Co. from 1935 to 1937 as cost estimator, methods engineer, and traveling auditor. He joined the Dictaphone Corp. in 1937 and was successively assistant controller, manager of purchases, manager of manufacturing, and vice president in charge of manufacturing, the position he held until he came here in 1958.

President Walker accepted the resignation with regret, observing that the "business sector of the University . . . today represents one of the most efficient and most economical operations in the country."

Fair Education Act

THE Pennsylvania Fair Educational Opportunities Act went into effect Sept. 15. Its provisions are of interest to all departments and offices concerned with students.

The Act sets forth the policy of the Commonwealth with regard to discriminatory practices in educational institutions based on race, religion, color, ancestry or national origin. It also prohibits such practices and provides for enforcement and judicial review.

Thomas E. Sterling, legal assistant to the President, points out that the Act declares as unfair education practice:

1. Exclusion or limitation or other discrimination because of race, religion, color, ancestry, or national origin against any student seeking admission. It is not considered unfair practice, however, to use criteria other than those enumerated in the admission of students.

2. Either written or oral inquiry prior to admission concerning or designed to elicit information as to the race, religion, color, ancestry, or national origin of a student seeking admission to such institution.

3. To expel, suspend, punish, deny facilities, or otherwise discriminate against any student because of race,

religion, color, ancestry, or national origin.

Of especial significance to all departments and offices and members of the faculty or staff is the fact that oral questions directed to or concerning the student may be illegal, Sterling emphasizes.

Earlier this term, deans and other administrative officers were advised of the provisions of the act and submitted all application forms in use for Sterling's study. Changes or deletions were noted to bring the forms into compliance with the Act.

Other provisions of the Act specify that neither a photograph nor a birth certificate may be requested prior to admission. Nor may questions be asked seeking memberships, activities, and offices held by the applicant unless accompanied by a statement which indicates that in listing such activities the type but not the name must be used so as not to reveal race, religion, color, ancestry, or national origin. It is also illegal to ask questions which establish the place of birth of either the applicant or his parents.

Another provision requires that all admission records and correspondence must be kept for three years, applying only to bonafide applications, however, not to inquiries.

News —

(Continued from page one)

through the Office of Student Aid, 218 Willard, UN 5-6301. A file of names of students available and their interests and aptitudes is maintained.

► **ICE RINK:** The University Ice Rink on East Campus is now open daily from 7 to 10 p.m. except Sunday and each Tuesday, Thursday, and Saturday from 1 to 5 p.m. A figure skating group occupies the rink Sunday evening.

► **PAINTERS:** A number of copies of the book, "The Pennsylvania Painters," which was prepared during the Centennial Year, 1955, are available at Pattee Library and may make suitable Christmas gifts. The book was published in connection with the exhibition of the 48 selected paintings by Pennsylvanians from the early 18th to the 20th century. Paperback copies are 50 cents, hardbound copies are \$1. Call UN 5-5431.

► **INSTITUTES:** The University will be one of 55 colleges and universities to conduct Academic Year Institutes for science and mathematics teachers during the 1962-63 academic year. The program was first offered at the University in 1957 and in the four institutes held here since, 200 teachers were enrolled.

Items of Interest

Elected and Appointed

COPP, J. H., rural sociology, re-appointed secretary-treasurer, Rural Sociological Society.

FROKE, M. D., journalism, re-elected for a year as chairman of the Council on Radio and Television of the Association for Education in Journalism.

HAJJAR, A. W., architecture, appointed to a jury to determine the winner of the best building in Pennsylvania competition sponsored by the American Institute of Architects.

KAFKA, ANDREW, Hazleton in English, appointed member of the Steering Committee of the Department of Public Instruction State English Committee.

NELSON, H. E., speech, named executive secretary of the Pennsylvania Speech Association.

PASHEK, R. D., transportation, appointed to the five-member Board of Examiners, American Society of Traffic and Transportation.

RAVER, LEONARD, music, organist for Roger Sessions' Mass, Museum of Modern Art, New York.

—organ recitalist at Church of Ascension in New York in new works by American composers.

TORKELSON, G. M., education, elected vice-president, Pennsylvania Learning Resources Association.

WILLIAMSON, M. A., Engineering and Architecture, appointed a member of the Board of Trustees of the Institute for the Certifi-

cation of Engineering Technicians, National Society for Professional Engineers.

Publications

ROSE, ARTHUR, chemical engineering, with Elizabeth G. Rose, the sixth edition of Condensed Chemical Dictionary, published by Reinhold.

READ, H. J., metallurgy, editor of the book, "Hydrogen Embrittlement in Metal Finishing" and author of two chapters. Published by Reinhold Publishing Co.

Lectures and Talks

DUBIN, S. S., Continuing Education, a talk on "Community Power Structure" at a Workshop on Community Relations for full-time health officers at Lakewood, N. J., Oct. 18, 19.

—a talk on "The Teacher's Role in Early Identification and Prevention of Emotional Disturbances" at the Central Pennsylvania Conference for Teachers in Dauphin, Perry, Snyder, and Juniata Counties, Oct. 17.

JUAREZ-PAZ, RIGOBERTO, philosophy, now visiting professor at the University of San Carlos, Guatemala City, two lectures on "American Pragmatism" at the University of Puerto Rico.

MARIN JOSEPH, engineering mechanics, a three-day series of lectures to engineers of the International Harvester Co. on the mechanical behavior of engineering materials.

MCKINLEY, D. H., Business Administration, a talk on "Gold and the U.S. Balance of Payments" before the Sylvania Management Club at Emporium.

MORSE, J. M., English, a talk on "The Uses of Obscurity in Modern Literature" at the Unitarian Church of Harrisburg, Oct. 1.

POWERS, W. H., Continuing Education, a talk on "The Dignity and Future of the Associate Degree" at the Wyomissing Center Convocation.

RIEBEL, L. JEANNE, home management, a talk on "Decision Making in Family Management" at a meeting of the western district of the Pennsylvania Home Economics Association in Pittsburgh.

TAYLOR, CLARICE G., hotel and institution administration, lectures at Michigan State University on "Automation in Hospital Food Service" and "Automation in Food Accounting" and for the Maryland Department of Health on "Planning Modified Diets."

THOMPSON, S. E., hotel and institution administration, lectures at Atlanta, Ga., Oct. 3 and Los Angeles Oct 17 on "Principles of Executive Leadership" and "Principles of Personnel Management" and on Oct. 10 before the Indiana Restaurant Association on "Merchandising for Profit."

WALTERS, W. H., theatre arts, a talk before the Ridgway Community Theatre on the subject of the Community Theatre.

WHERRY, R. H., commerce and management, discussions on insurance company personnel practices at the 1961 Michigan Life Insurance Management Institute at Michigan State University.

WISLICENUS, G. F., Ordnance Research Laboratory, a paper, "Scale Effects on Cavitation" with J. W. Holl, former ORL staff member, in the September issue of the Journal of Basic Engineering.

Existentialism

Gabriel Marcel, professor at l'Institut de France currently serving as William James Lecturer at Harvard University, will speak tonight at 8 p.m. in Room 121 Sparks on "Existential Philosophy and Religion."

Author of many plays, books, and articles, Dr. Marcel will be the guest of Dr. Henry G. Bugbee, Jr., professor of philosophy, who studied under him in France and at Harvard.

Books needed

Books on the Philippines and Southeast Asia are being collected for use by Peace Corps trainees, who are in training for service in the Islands.

Dr. George M. Guthrie, assistant director of the Peace Corps program, explains that a larger library would enrich the instructional program inestimably. He says that 75 titles of books on the Philippines have been added in the past six months, including some very valuable books such as the 55-volume Blair and Robertson series on the Islands.

All books on the Philippines and adjacent areas will be welcome. Contributions should be made to The Peace Corps, Room 202 Engineering E.

Art sale

Art workers or members of the faculty and students in art education and fine and applied arts will be on sale Friday and Saturday, Dec. 1 and 2 from 9 a.m. to 10 p.m. in Room 105 Temporary Building.

This is the annual Christmas sale sponsored by the Art Education Graduate Club. Oil paintings, water colors, graphics, drawings, pottery, silver work, sculpture, and handicrafts are included.

Funds obtained from the sale will be used to increase the University's art collection.

Chapel Choir

The sixth annual Festival of Lessons and Carols will be presented by The Meditation Chapel Choir at the Helen Eakin Eisenhower Chapel, Tuesday, November 28, at 8 p.m., James W. Beach conducting. Liturgists for the service are Dr. Luther H. Harshbarger, The Reverend P. Barrett Rudd and Bernard Nord.

The Festival of Lessons and Carols is adapted from the traditional Christmas Eve celebration of King's College Chapel in Cambridge, England. It was first presented in our Chapel in 1956.

The music will include traditional carols of various countries and works of R. Vaughn Williams, Buxtehude, Peerson, Handel, Bach, Pachelbel and Scheidt.

Letter writing

Fifty administrators in nine non-academic departments of the University are attending evening classes this term to advance their skills in letter writing.

The weekly sessions are conducted by Robert G. Weaver, assistant professor of English, through Continuing Education Services, and comprise what is more completely titled a Workshop in Written Communications.

Albert E. Diem, vice-president for business, initiated the sessions for ad-

ministrators in departments under his direction to stress the principles of good business letterwriting and study practical problems in communications.

Weaver teaches two sections one night a week and the program will run for eight weeks.

Departments represented include: Security, General Services, Physical Plant Planning and Construction, Maintenance and Utilities, Purchases, Housing and Food Service, Management Engineering, Personnel Service-Employee Relations, and the vice-president's office.

CALENDAR

Friday, Nov. 24

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Dr. R. Phillips, British Iron and Steel Association, on "The Physics of Cutting Thin Sections."

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Lecture by Gabriel Marcel, professor of philosophy at l'Institut de France, 8 p.m., Room 121 Sparks, on "Existential Philosophy and Religion," sponsored by the department of philosophy.

Saturday, Nov. 25

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Sunday, Nov. 26

Protestant Service of Worship, 9 a.m., The Chapel. Rev. Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Howard Cutler, assistant to the President for academic affairs.

Monday, Nov. 27

A lecture by Sister M. Thomasita, O.S.F., Cardinal Stritch College, 11:10 a.m., Home Economics Auditorium.

Meeting of faculty of the College of Physical Education and Athletics, 7 p.m., White Building recreation room.

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. C. O. Bergeson, associate professor of educational services, on "Glimpses of Soviet Schools."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. M. G. Sharma, on "Experimental Results and Correlation with Theory."

Tuesday, Nov. 28

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. J. Conway, on "A Modification of the Mohr-Coulomb Theory of Fracture."

University Lecture Series with Archibald MacLeish, poet, 8:30 p.m., Schwab Auditorium.

Meditation Chapel Choir Festival of Lessons and Carols, 8 p.m., The Chapel.

Wednesday, Nov. 29

Psychology Colloquium, 8 p.m., Room 214 Boueke. Dr. Robert P. Abelson, associate professor of psychology, Yale University, on "Computer Simulation of the Attitude Processes."

Thursday Nov. 30

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Johann D. Swartz, assistant

professor of physics, University of Rochester and research associate at Fermi Institute for Nuclear Studies, on "Hyperon-nucleon Interaction."

Biological Science Lecture Series, 4 p.m., Room 214 Boueke. Dr. W. D. McElroy, chairman of biology department and director of McCollum-Pratt Institute, Johns Hopkins University, on "Bioluminescence."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. J. Lowy, research associate, Kings College, London, on "Fine Structure and Action of Muscle."

Metalurgy Graduate Seminar, 1:10 p.m., Room 229 Mineral Industries. J. G. Harhai on "The Mechanism of Exothermic Occlusion of Hydrogen by Cold Worked Iron-Carbon Alloys."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Edward Rosenheim, Jr., on "The Fifth Voyage of Lemuel Gulliver."

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. George Porter, University of Sheffield, England, on "Kinetics of the Triplet State in Solution."

Friday, Dec. 1

Mineral Industries Colloquium, 4 p.m., Mineral Industries Auditorium. Dr. W. F. Cole, visiting professor of ceramic technology, on "The Work of the Division of Building Research of the CSIRO (Australia)."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Seymour S. Brody, IBM Watson Research Laboratory, Columbia University, on "Mesomorphic State of Chlorophyll and its Possible Role in Photosynthesis."

Television Listings

(for week of Nov. 27, WFBG-TV, Altoona)

HOME ECONOMICS

9 - 9:30 a.m.

Monday — Marjory L. Joseph, Why Clothing Styles Change.

Wednesday — Dr. Ruth W. Ayres and Dr. Barbara E. Densmore, Your Clothes and the Industry.

Friday — Dr. Densmore, Textile Evolution and Revolution.

FARM, HOME, and GARDEN

1 - 1:30 p.m.

Monday — Delores Williams, food for civil defense.

Tuesday — Herbert Jordan, poultry production costs.

Wednesday — Margaret Nichol, Storage.

Thursday — Jane Marhefka, managing.

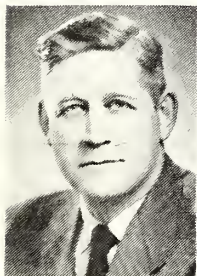
Friday — J. Gray Mattern, farm income tax tips.



The former 32-room mansion on the estate called "Highacres" at Hazleton is now central building on Penn State campus.

The Hazleton Campus

A note in the University catalogue for 1935-36 says:



Frank C. Kostos

"In response to the requests of many communities for instruction of college grade to be offered locally, the College established a unit of instruction which it called the Undergraduate Center. Four such centers were established in 1934-35 in the following cities: Hazleton, Pottsville, Sayre-Towanda, and Uniontown. These instruction units, in which qualified high school graduates may start their college training in an economical way, have been purposely planned on a temporary basis to satisfy an emergency need."

In the intervening 27 years the centers at Hazleton and Pottsville have proven themselves something other than "temporary" and the emergency — then related to the depression of the 'thirties — has long since past.

At Hazleton, the center opened in the Markle bank building, in 1934, with Robert E. Eiche (now at Altoona) as administrative head and 37 freshmen to initiate the program.

In three years, the center had to move to larger quarters in a

public school building. There was some doubt about continuing the center during war years, but the Hazleton Education Council wisely set about a fund-raising drive to underwrite any operating deficit due to low enrollments. The drive netted \$5,000 and the center weathered the years successfully.

After the war years the Council was forced by mushrooming enrollments to hunt for more spacious quarters, and rooms in another school building were pressed into service until more permanent quarters could be found. In December, 1948, the Markle estate (called "Highacres") was purchased and one of the most attractive additions to Penn State facilities resulted.

The purchase included a 32-room mansion, seven-car garage, and other buildings on a 65-acre plot high atop a mountain overlooking the beautiful Conyngham Valley, with a view for 50 miles.

Through extensive renovations, the rooms in the main house were converted into administrative offices, biology lab, drafting rooms, classrooms, library, and faculty offices. Other changes were made also.

The Hazleton Area includes many small communities — such as McAdoo, Freeland, Lansford, Coaldale, Tamaqua, West Hazleton, and Hazle Twp. — which, in spite of declining income from coal operations, maintain a strong hope for their children. In addition to these communities are the fringe area towns, such as Nescopek, Jim Thorpe, and Berwick. Most of the students are first generation college-goers, sons and daughters of miners, businessmen, and employees of light industry. About 90 per cent commute, nearly all from within ten miles but from as far away as Berwick. In common with other areas of the State, Hazleton has many families who are beginning to realize the importance of college education for girls. Currently the male-to-female ratio at the Hazleton Campus is less than five to one, and it is steadily decreasing.

School spirit rates high at Hazleton and student government is strong. One of the outstanding products of the Campus finished the first two years at Hazleton, completed baccalaureate work at University Park, went to law school, and is now a practicing lawyer in Hazleton and a member of the Education Council, which corresponds to the advisory board at other Commonwealth Campuses.

Of the 22 members of the faculty, the average length of service at the Campus is over eight years, and many have been there more than ten years. Director Frank C. Kostos, associate professor of physics Gilbert Ward, associate professor of mathematics Hobson Zerbe, and associate professor of chemistry J. Richardson Mattern have been at Hazleton for a total of 62 years.

Six members of the faculty have had experience in engineering, two in industry, and others in law, accounting, sugar refining, ordnance, and personnel work. Seven are Penn State graduates and among other colleges represented are Princeton, Harvard, Columbia, Texas, Syracuse, Pennsylvania, Duke, Wisconsin, Iowa, and Albright.

Since the original purchase, two laboratory-classroom and student union buildings have been added to the campus and recreation and parking areas developed. The student union includes dining facilities, book store, offices, lounge, and game room.

There are no other colleges in the immediate area of the Hazleton Campus and so the community loyalty is undivided; Penn State has a strong following. The emergency and temporary phase of the center of 1934 is long forgotten.

faculty BULLETIN

Vol. 49, No. 19 Nov. 24, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I NAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Dec. 1

Fluid Mechanics Seminar, 3:55 p.m., Room 301 Engineering "A." Film titled "Vorticity" developed by the Physical Science Study Committee, Educational Services Inc.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. W. F. Cole, visiting professor of ceramic technology, on "The Work of the Division of Building Research of the CSIRO (Australia)."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Seymour S. Brody, IBM Watson Research Laboratory, Columbia University, on "Mesomorphic State of Chlorophyll and its Possible Role in Photosynthesis."

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m.

Saturday, Dec. 2

Varsity basketball, vs. Maryland, 8 p.m., Rec. Hall.

Chapel Choir Advent Concert, 10:55 p.m., Schwab Auditorium.

Center Stage production of William Saroyan's "The Cave Dwellers," 8 p.m. (Last night.)

Sunday, Dec. 3

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. John Whitney.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

32nd annual German Sing, 7:30 p.m., Schwab Auditorium.

Monday, Dec. 4

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. A. V. Sharma, on "Viscoelastic Stress Analysis."

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Meditation Chapel Choir, James Beach conducting, in Advent and Christmas music.

(Continued on page four)

Winter term registration

Registration for the Winter Term will take place Wednesday, Jan. 3, beginning at 8 a.m., through Thursday, Jan. 4, at 5 p.m., in Recreation Building. The Office of the Registrar makes the following points regarding registration:

1. Students will report to their advisers at least 24 hours in advance of their scheduled registration. Some colleges have special reporting schedules.

2. A revised Winter Term Official Registration form may be completed and approved only if (a) a course or courses was failed in the Fall Term requiring a revision of the original Winter Term schedule; (b) the student changes curriculum, major, and a change in his original Winter Term schedule is essential; (c) the student changed his Fall Term schedule after filing his original Winter Term schedule and had no opportunity to file a revised schedule.

3. Students will report for registration at Recreation Building according to the alphabetical schedule on page S3 of the Time Table. "Closed Period" of registration will be at 4:40 p.m. Thursday, Jan. 4. Students missing their scheduled reporting time will register between 8 a.m. and noon Friday, Jan. 5 in Room 4, Willard, except

those delayed by some requirement of the College or Department.

4. Late registrants will be charged \$10 and course assignments made for them will be cancelled except for the following: ill students, those having death or illness in immediate family, those with a University connected commitment, in-service teachers, or University employees. The exceptions should make arrangements for late registration with the Registrar beforehand, and no later than 5 p.m. Thursday, Jan. 4.

5. Drop-add forms may be processed starting January 5.

6. Veterans registering under P.L. 550 must carry 10 credits for full-time training as undergraduates.

7. All male undergraduate students must be registered for at least 10 credits in a term to be considered eligible for draft deferment; a non-credit course is not counted for credit in totalling the credits scheduled, in this case.

8. An Official Registration Form (No. 2 card) for the Spring Term 1962 will be completed and approved for all students registering for the Winter Term. The student will present this card to the Registrar when registering.

Lecture on anger

Dr. Edward W. Rosenheim, Jr., distinguished visiting professor of English, will give the third Graduate School Lecture of the Fall Term Tuesday, Dec. 5, at 8 p.m. in Room 121 Sparks.

His lecture is titled "Anger as a Fine Art," and is co-sponsored by the Department of English.

Currently chairman of the College Humanities staff of the University of Chicago, Dr. Rosenheim has been a member of the faculty at Chicago since 1947 and previously taught at Gary College, Gary, Indiana. He is a Chicago graduate where he received all three degrees. He was the director of radio and television at Chicago 1954-57 and during that time produced and moderated the University of Chicago Round Table (NBC) and other radio and television programs.

He was the editor of the Journal of General Education from 1954 to 1956.

In his lecture, Dr. Rosenheim will discuss true satire, pointing out the writings of such men as Pope, Swift, and Churchill, and arguing that our present society is neglecting satire, which is potentially a weapon of great value in many areas of public concern.

Movie planned

With a grant of \$18,000 from the U.S. Office of Education, the Division of Academic Research and Services has begun production of a sound movie to report the Penn State instruction television program.

The 30-minute film is viewed as being useful to workshops, conferences, professional meetings, and to boards of trustees, school boards, commissions and school administrators who wish to know more about the Penn State program.

Dr. C. R. Carpenter, director of DARS, and L. P. Greenhill, associate director, are supervising the film, which is expected to be ready for distribution by August, 1962. Twelve copies will be made and given free circulation.

The film will have a three-fold purpose: (1) to show and demonstrate the physical aspects of the Penn State instructional television model; (2) to present factual data on the University's research; (3) to stimulate the audience and provide the opportunity for understanding the problems and results which can be expected in any instructional television operation at this level.

NEWS IN BRIEF

► **RECEPTION:** The faculty and staff are cordially invited to attend a reception in honor of Dr. Herbert R. Albrecht, director of Agricultural and Home Economics, Wednesday, Dec. 6, from 3 to 5 p.m. in the HUB ballroom. Dr. Albrecht is leaving the University Jan. 1 to accept the post of president of North Dakota University of Agriculture and Applied Science.

► **SING:** The 32nd annual Christmas Sing sponsored by the department of German will be held Sunday, Dec. 3, at 7:30 p.m. in Schwab Auditorium. Singing of traditional carols, special music, the reading of the Nativity story, and the telling of a story will be featured on the program.

► **TELECAST:** The University's prize-winning film, "Penn State: A Land-Grant University in Action" will be televised in color at 2:45 p.m. Sunday, Dec. 3, by WJAC-TV, Johnstown, Channel 6.

► **CENTER STAGE:** The Penn State Players' show, "The Cave Dwellers," by William Saroyan, will complete its run at Center Stage this weekend, the final performances being given tonight and Saturday at 8 p.m.

► **WYOMISSING:** Two nationally-prominent speakers have appeared at the Wyomissing Center recently in a program sponsored cooperatively with the Industrial Management Club of Reading. Dr. Clarence E. Manion, former dean of the College of Law at Notre Dame University and former member of the White House staff under President Eisenhower, spoke on Nov. 16. The other speaker was W. C. Sawyer, of Freedoms Foundation.

► **BROCHURE:** Still available at the Department of Public Information, 309 Old Main, are copies of the 16-page brochure of facts and figures concerning the Land-Grant Centennial. The brochure serves as a reference for those who plan to speak or write on the subject.

Library hours

For the period between the Fall and Winter Terms, Pattee Library will observe the following hours, subject to change as circumstances require:

Day	Open	Close
Thur., Dec. 7	7:50 a.m.	10 p.m.
Fri., Dec. 8	9:00 a.m.	9 p.m.*
Sat., Dec. 9	9:00 a.m.	5 p.m.
Sun., Dec. 10	2:00 p.m.	6 p.m.**
Mon. - Thur., Dec. 11-14	9:00 a.m.	9 p.m.
Fri., Dec. 15	9:00 a.m.	9 p.m.*
Sat., Dec. 16	9:00 a.m.	5 p.m.
Sun., Dec. 17	2:00 p.m.	6 p.m.**
Mon. - Thur., Dec. 18-21	9:00 a.m.	9 p.m.
Fri. - Tues., Dec. 22-26	CLOSED	
Wed. - Thur., Dec. 27-28	9:00 a.m.	9 p.m.
Fri., Dec. 29	9:00 a.m.	9 p.m.*
Sat., Dec. 30	9:00 a.m.	5 p.m.
Sun., Dec. 31	2:00 p.m.	6 p.m.**
Mon., Jan. 1	CLOSED	
Tues., Jan. 2	9:00 a.m.	9 p.m.

On days marked with a single asterisk (*), from 5 to 9 p.m. no service will be available but the building will be open. On the three Sundays marked with a double asterisk, no service will be available during the entire time the building is open.

Services for Advent

Two special services in celebration of Advent will be held in Schwab Auditorium this weekend: the 15th annual midnight service Saturday night and the morning service of worship Sunday morning.

The program Saturday begins at 10:30 p.m. with a prelude recital under the direction of Dr. Leonard Raver, Chapel organist, and at 10:55 p.m. the service proper will begin. The Choir, under the direction of Willa C. Taylor, will sing anthems by Byrd, Tallis, Praetorius, Warlock, Britten, and Joubert.

At the Sunday morning service, at 10:55 a.m., the choir will be made up of new members of the Chapel Choir, James Beach conducting. The Rev. Luther H. Harshbarger will be the speaker.

DECORATIONS

All trees and greens used in campus buildings must be fire-proofed. Fire-proofing will be done by the Maintenance and Utilities Department for Campus organizations only, between 1 p.m. and 3 p.m. on Monday, Wednesday and Friday of each week beginning Wednesday, November 29, 1961 up to and including Friday, December 15, 1961.

Each organization is responsible for delivery and pick-up of its own

tree at the Landscape Maintenance Depot, the small building east of the Chemical Engineering Laboratory.

Christmas trees and greens may be ordered by an interdepartmental transfer form stating the size of tree, delivery date and location. For further information please call UN 5-5469 Maintenance and Utilities Department, 322 Old Main.

Prices are as follows: 3-4 ft. tree, \$2.50; 5-7 ft., \$4.00; 8-10 ft., \$6.00.

Personnel matters



A. E. Wierman

Allen E. Wierman, assistant supervisor of correspondence instruction in Continuing Education for 25 years, will retire Jan. 1. Wierman introduced correspondence courses into Pennsylvania high schools. He is also credited with

writing the first insurance correspondence courses offered by colleges and he is author of the widely-used booklet, "The Mechanics of Correspondence Instruction." He initiated a citizenships training program in correspondence which has helped some 3,000 immigrants to become citizens. Long active in the local chapter of the American Association of University Professors, he has served as vice president, chairman of the welfare and membership committee, and as a member of the executive committee.

Joseph Intorre has been named assistant director of the Institute of Public Safety. He has been affiliated with the Institute since 1945 and previously was one of the first driver education instructors employed by the Commonwealth. A 1936 graduate in education, he also received the master of science degree from Penn State in 1938. He has served as president of the American Driver and Safety Education Association and president of the Pennsylvania Association of Safety Education.

ADDITIONS

Additions to the faculty at the Ogontz Campus include the following: Mrs. Edith C. Boorse, speech, English composition, and literature; Dr. Charlotte W. Mangold, German and English; and James Steel, biological science.

DEATH

Dr. Harutoshi Kakimoto, research associate in mechanical engineering, was killed in an auto accident at Ridgway Nov. 25. He was 29, had served on the faculty since 1960 in the Diesel engine research program.

ONE HUNDRED YEARS

Penn State graduated its first class one hundred years ago this month, when 11 students, of an original class of 59, were granted bachelor of scientific agriculture degrees. At graduation exercises next week, about 500 will receive degrees.

Allentown Center

In this 80-year-old building one of the most vigorous day and evening programs of instruction on Commonwealth Campuses is carried on in Allentown.



THE University's Commonwealth Campus System has its roots in non-agricultural extension-type programs which began shortly before World War I.

One of the first cities to ask for such programs was Allentown where, in 1912, the School of Engineering began technical courses given in the evening by a Penn State faculty member. Previously, similar classes were held in Williamsport and Altoona and soon other cities asked for extension instruction.

During World War II, more than 4,000 students in the Allentown district enrolled in courses at the Center, meeting in junior high school and office buildings.

In 1947, to satisfy the needs of returning veterans, one-year technical institute programs were started, and from these eventually were developed the present two-year associate degree programs in engineering.

The associate degree curriculums in drafting and design technology and electrical technology now enroll about 110 daytime students, all male. The tradition of evening technical work goes on strongly, from year to year averaging enrollments of 300-400.

Both daytime and evening students commute largely from Allentown, Bethlehem, Easton, and Phillipsburg, N.J., and other towns in the Lehigh Valley, such as Northampton, Slatington, Nazareth, Palmerton, and Lehigh. Generally they are from families in the skilled trades or farming, and many of the students bring with them the flavor of their Pennsylvania Dutch ancestry.

The Lehigh Valley is generally prosperous and considered a pleasant, healthy place to live. Industrially there are steel mills, cement mills, truck assembly plants, electronic component manufacturers, cigar factories, and textile mills. People are educationally-oriented.

Virtually all the students commute from their homes; a few whose homes are at some distance room in Allentown. Two-thirds of the commuters live within 10 miles of the Center and only a few live more than 20 miles away. A small contingent annually comes from East Stroudsburg, a 30-mile, one-way trip.



W. R. Grubbs

In spite of the handicap of a commuting student body, there is a strong interest in extracurricular activities: radio club, student newspaper, bowling league, an informal basketball team, and an annual table tennis tournament.

Facilities at the Center are limited. In 1951 the Allentown Advisory Board purchased a three-story brick factory building, dating from 1880, which has served as a cigar factory, silk mill, and boys' club in one of the oldest parts of town. The interior was partitioned into classrooms and laboratories by the University and considerable renovation has been done on walls, floors, and plumbing.

Except for faculty office space, the Center building suffices for the associate degree program but evening students jam every corner, including the library and lounge for classwork. Most popular of the evening classes are courses in mechanical production, tool design, industrial electricity, business management, accounting, industrial management, and building construction.

The Allentown faculty is headed by Willard R. Grubbs, who taught at DuBois High School for 18 years and served at DuBois and Hazleton campuses for 9 years before going to Allentown six years ago. He and two other members of the faculty, Robert E. Sentz and Joseph A. Sullivan, are members of the famed Bethlehem Bach Choir. Sentz is a Lehigh University graduate and taught there two years before joining the Center faculty five years ago. Sullivan is a Penn State graduate who is in his second year at the Center. Other faculty members include Michael C. Grenata, West Point graduate and a member of the U.S. Army engineers from 1918-53; Russell N. DeVincey, Muhlenberg and Lehigh graduate; George W. Kirkendall, Purdue alumnus who taught at the New Castle Center for three years before going to Allentown a year ago; and Rachel G. Conover, Southern California graduate with 18 years industrial experience in machine and tool design.

In the area are a number of colleges: Muhlenberg, Cedar Crest, Eastern Pilgrim in Allentown; Moravian and Lehigh in Bethlehem; and Lafayette in Easton. Lehigh and the University's Continuing Education representatives frequently consult on evening and summer programs to eliminate overlapping of offerings. In such matters as announcing open cultural programs and advising prospective students about other colleges, the institutions in the area cooperate quite actively.

Items of Interest

Articles and Papers

At the 37th annual convention of the American Speech and Hearing Association, papers by the following speech department members: McDonald, E. T., "The Bases of Speech and Disabilities in Cerebral Palsy;" Woolf, Gerald, "A Rationale of Therapy for Adult Aphasia;" and Siegenthaler, B. M. with Vera Gruber, on "Interfacilitation of Vision and Audition for Speech Reception for Hard of Hearing Adults."

At the ASME winter meeting in New York, papers by R. E. Bland, "The Schlieren Method Applied To Flow Visualization in a Water Tunnel;" by B. W. McCormick, "On Cavitation Produced by a Vortex Trailing from a Lifting Surface," both of the Ordnance Research Lab.

BIRKENMAYER, S. S., Slavic languages, a paper on "The Russian Poet Nekrasov" at a meeting of the Comparative Literature Club.

DAVIDS, Norman, and Pytel, Andrew, engineering mechanics, a paper on "Transient Analysis of Shear Impact" at the annual meetings of the American Society of Mechanical Engineers.

FERGUS, C. L. and Schein, R. D., plant pathology, a paper on "Effect of Environment on Germination of Ascospores of Uromyces Craterium," in the September-October issue of Mycologia.

KOCHANOWSKY, BORIS, mining, a paper titled "Latest Development of Open Pit Mining in the United States" at annual convention of the West German National Lime Association, at Bad Kissingen.

—a paper on "Latest Development in Inclined Drilling" at the meeting of the Operation Division, National Lime Association, Washington, D.C.

LUGO-FARIA, ELPIDIO, a paper on "Detection Volumes for a Reverberation-Limited System in an Anisotropic Medium" at the 19th Navy Symposium on Underwater Acoustics in Washington, D.C.

MARIN, JOSEPH, engineering mechanics, a paper on "Mechanics of Solids" at the annual meetings of the American Society of Mechanical Engineers.

PENDERED, N. C., industrial education, an article on "Should the Objectives for Industrial Arts be Changed" in the November issue of Industrial Arts and Vocational Education.

member issue of Industrial Arts and Vocational Education.

PANOFKY, H. A., meteorology, an article in the October issue of the Quarterly Journal of the Royal Meteorological Society on "Similarity Theory and Temperature Structure in the Lower Atmosphere."

PRYBYLA, J. S., economics, an article on "Economic Recovery in the U.S.A." in the Sept. 25 issue of Capital-The Indian Financial Review.

WEISSMAN, WINSTON, art and architectural history, an article on "Skyscrapers" for the supplementary volume of James Truslow Adams' Dictionary of American History.

VEATCH, JEANNETTE, elementary education, an article on "Clarified Teacher-Librarian Roles" in the September issue of School Library.

Lectures and Talks

COLOGNE, ROSE, home-community relationships, a talk on "Life in Afghanistan" at meeting of Home Economics College Clubs of Pennsylvania in Pittsburgh.

HERPEL, COLEMAN, Ogontz, a panelist discussing "The Public Junior College" at The Philadelphia Schoolmen's Club.

KNEEBONE, L. R., botany and plant pathology, a series of technical lectures in major mushroom producing areas on behalf of The American Mushroom Institute. —guest speaker at the annual meeting of the Canadian Mushroom Growers Association in Toronto.

KNIFFIN, F. W., marketing, a talk before the Wake Forest Management Institute, Winston-Salem, N. C., on marketing philosophy and techniques.

MUELLER, E. W., physics, the banquet lecture at the three-day International Research Symposium on Electrical Contact Phenomena at University of Maine, on "Atomic Structure of Refractory Contact Metals."

NIEBEL, B. W., industrial engineering, a talk on "Objective Random Analysis Study" at the meeting of the American Institute of Industrial Engineers at Binghamton, N.Y.

REMICK, F. J., nuclear engineering, a talk on "Nuclear Power — Why and How" for the Harrisburg Kiwanis Club.

Arts

PHILLIPS, MATTHEW, Ogontz, on leave, exhibiting 18 monotypes at the Peter Deitch Gallery, New York.

Calendar —

(Continued from page one)

Tuesday, Dec. 5

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Varsity basketball, vs. Lehigh, 8 p.m., Rec. Hall.

Graduate School Lecture by Dr. Edward Rosenheim, Jr., distinguished visiting professor of English, on "Anger as a Fine Art," 8 p.m., Room 121 Sparks.

Wednesday, Dec. 6

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Dec. 7

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. John Pople, National Physics Laboratories, England, on "The Theory of Melting of Molecular Crystals."

Metallurgy Seminar, 1:10 p.m., Room 229 Mineral Industries. K. J. Kundig, on "An Investigation of the Anomalous Impact Properties of Type 410 Stainless Steel."

Fall Term classes end, 9:55 p.m.

Television Listings

(for week of Dec. 4, WFBG-TV, Altoona)

HOME ECONOMICS

9 - 9:30 a.m.

Monday — Dr. J. F. Krawiec and Clarice G. Taylor, on Family Members away from Home.

Tuesday — D. B. Van Dommelen and daughter Erica, on The Child and Beauty.

Wednesday — Dr. Ruth R. Ruef, on research and You.

Thursday — Lurene Jochem, on what it's like to be a student in Home Economics.

Friday — Dr. Grace M. Henderson and Dr. Marjorie East on the future of the family.

FARM, HOME, and GARDEN

1 - 1:30 p.m.

Monday — to be announced.

Tuesday — Tom King.

Wednesday — Helen Butler, wrapping Christmas presents.

Thursday — Gordon Walker, milking machines.

Friday — Margaret Isenhower, holiday brunch.

faculty BULLETIN

Vol. 49, No. 20

Dec. 1, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

NEWS IN BRIEF

► **DIRECTORIES:** Distribution of State College-Bellefonte telephone directories will be made to University offices within the next week to 10 days. About 3,000 copies will be provided, one to each phone. In most cases they will be tied together by departments and placed at the regular mail distribution points in each building.

► **NEW KENSINGTON:** Gifts totaling \$2,400 have been made to the New Kensington Center in the past two years, in support of the instruction and scholarship programs. The Aluminum Company of America has given \$2,000 as part of its annual program of support to colleges and universities. Anonymous donors have given \$100 as has the New Kensington Bar Association. Area industries have given valuable equipment and individuals have provided technical books and periodicals.

► **PATENT:** Carroll L. Key, Jr., and Richard F. Trufant, both of the Ordinance Research Laboratory, are co-inventors of a device which prevents mechanical overtravel of rotating components such as potentiometers for which a patent has been granted by the U.S. Patent Office.

► **ALUMNI:** Three Penn State alumni figure prominently in the affairs of the Society of Mining Engineers. The present president, James C. Gray, will be succeeded in February by alumnus William B. Stephenson, who will in turn be succeeded by Edward G. Fox.

(Continued on page three)

Commencement

A total of 523 degrees, including 392 bachelor's and 131 advanced, will be awarded at Commencement Exercises Saturday, Dec. 9, at 10:30 a.m. in Recreation Building.

There are no tickets required for those who wish to attend. Faculty members who will be in the procession in academic dress should report under the south balcony at 10:15 a.m. Other faculty members, in civilian clothes, will be seated on the north side of the floor.

John B. Nesbitt, associate professor of civil engineering, will be acting marshal in the absence of University marshal David H. McKinley.

Faculty series

Additional appearances by faculty members of the University Park campus at Commonwealth Campuses in the Faculty Artists Series have been announced.

Dr. Frederick R. Matson, assistant dean for research in the College of the Liberal Arts, will appear at the Altoona Campus Feb. 16 to speak on "An Archaeologist at Work."

Dr. Hummel Fishburn, head of the departments of music and music education, will speak at Hazleton March 2 on "Who Wrote That Tune?" He will also speak at the York Campus April 16.

March 7 at the Behrend Campus in Erie, the art department group consisting of George S. Zoretich, associate professor; Bruce Shobaken, instructor, and Stuart H. Frost, instructor, will give a painting demonstration-lecture.

Dr. Harrison T. Meserole, assistant professor of English, will speak on "The Composer and Music" at the Altoona Campus April 27.

Enrollment

In a survey of enrollments at colleges and universities of the nation for the educational journal, School and Society, a 7.5 per cent increase in full-time students enrolled in 1,017 institutions is noted by Dr. Garland G. Parker, registrar for the University of Cincinnati.

Penn State's enrollment of full-time students increased by 3.7 per cent since last year.

In spite of the University's growth, Purdue University replaced Penn State in 12th position. In statistics of total enrollment, which includes part-time students, Penn State now ranks 16th.

At the colleges and universities reporting, freshmen enrollment is up only 5.4 per cent this year, in contrast

to 11.4 per cent jump last year. The smaller increase, Dr. Parker speculates, is due to 1961's unsettled economic conditions, limited capacities in many colleges, and the relatively low World War II years' birthrate. Also, many freshmen enrolled in junior colleges are not included.

Expenses in college

A study of room-board and tuition charges at 34 public and private institutions by Carl E. Wedekind, director of educational planning at the University of Pittsburgh, places Penn State 27th in tuition and 22nd in room-board.

The relatively low tuition charges are explained by the comparison with private institutions.

Highest tuition reported in the study, which was coded to conceal the identity of the participating colleges to avoid direct comparisons, was \$1600 a year. Tuition of \$1,000 or more per year was reported by 20 colleges compared to Penn State's \$525 for three terms.

Room and board charges of \$1,000 or more were reported by three institutions; eight said they planned increases in 1962 and 1963.

Peace corps

A total of 54 new Peace Corps volunteers completed training programs this week and will go for further training in the Philippine Islands early in January. Twenty-eight of the group are women. A third contingent of 60-70 volunteers will begin training at the University January 24; 128 who completed the program earlier are already on duty in the Philippine public schools.

Twenty one states are represented in the class which graduated this week; one Pennsylvanian was included. Each received a certificate at a dinner Wednesday.

The ten-week program prepares the volunteers for service in assisting in the teaching of English in the Island schools.

HUB food service

The Lion's Den of the Hetzel Union Building closed for service between Terms last night. However, patrons may obtain sweet rolls and coffee at the Terrace Room from 8 a.m. to 10 a.m. and from 2 p.m. to 3:30 p.m. today and all of next week.

The Terrace room will close after Dec. 15. Both the Terrace Room and Lion's Den will reopen Jan. 2.

On Dec. 12, from 5 to 6:45 p.m., the annual Christmas dinner will be served in the Terrace Room.

Research appraisal

by Dr. H. B. Currie, and presented to the Senate at its meeting of Dec. 5, 1961, by the Research Policy Committee.

This report concerns studies made in response to a directive of the Research Policy Committee of the Pennsylvania State University Senate, dated October 24, 1960, directing me to prepare such a report by March 1, 1961.

The basis of the report is a remark in a proposal made the previous year to the effect that if research is to be used as a criterion for advancement it is imperative that it be adequately judged. This report is concerned with how such appraisal of research performance may be achieved. But is not possible to do this without going into the question of why such appraisal is necessary and what purpose it is to fulfill. This preliminary question will be dealt with in Part I. In Part II the ways of achieving the objective will be discussed.

The report is called a progress report because it is unfinished. In the nature of the case is hardly could be. No matter how much time is devoted to such a project, it is probable that the investigations would suggest directions in which still further exploration would be interesting. That is indeed the case here.

Part I. Basic Philosophy

1. The basic purpose of the university is to advance human knowledge and to organize and disseminate it for the good of mankind in general and of the people of the state in particular. It is the obligation of the university to see to it that the money entrusted to it is used as efficiently as possible toward that end. This means that the university should deliver to the community the best scholarly activity that it can, with due regard, not to the immediate material gains, but to long run intellectual progress. Any increase in expenditure must be judged by what it contributes to that end.

2. Faculty advancement can contribute to this objective in the following ways:

a. By keeping the most creative talent here, as opposed to having them leave for more remunerative employment elsewhere.

b. By stimulating the recipients to greater productivity. This is a very real factor. The recipient of such advancement is a notice to the recipient that the work which he has done is important; and the history of scholarship and the biographies of intellectual giants show that, to the kind of people who generally make up university faculties, this is one of the greatest satisfactions which life can bring. It is also, to human beings with that feeling of social responsibility which usually goes with devotion of an intelligent person to scholarly pursuits, one of the most powerful stimuli to greater achievement which exists.

c. By freeing the recipient from worries and inconveniences so that he can work more effectively. Few persons can make great intellectual discoveries when they have to worry about their next piece of bread; further, if an individual cannot buy books, belong to societies, or travel to (often distant) meetings, and if he has no suitable place to work or opportunity to meditate, his efforts to become a creative scholar are inevitably handicapped.

d. By involving the morale of the entire university. When a faculty member receives a well-deserved reward everyone benefits; even the most humble junior will feel that with hard work he too will eventually receive all that his abilities will entitle him to.

e. By giving the university a reputation which will attract to it higher grades of creative talent. It is axiomatic that a sound promotion policy is a factor in the choice of positions in a competitive market.

3. Comments. The following comments concern the relations of these reasons one to another:

a. The reason 2a is the one most frequently invoked. Indeed the advice given by a senior professor to a young graduate student of thirty years ago, to the effect that there was no way to

get a substantial raise except on a move or a threat to move, probably holds good today. But when an advance is made for that reason a large part (depending on the temperament of the individual) of the benefit under 2b, and practically all of that under 2d and 2e is lost. Furthermore, if the university gets the reputation of making advances solely for that reason, it will probably have to pay more for new personnel than would otherwise be the case. Such a policy does not constitute an efficient use of public funds.

b. Of the reasons given in Section 2, the most important, on the whole, seems to be 2d, with 2e, 2b next in line.

c. The importance of the reason 2d is, of course, much greater in the case of advances that are immediately obvious, such as promotions in rank and some sort of changes in "work load." Salary changes are supposed to be secret. But if a salary change is considerable, it is not long in becoming evident; and 2d, 2e are important considerations in connection with it also.

d. It is an obligation of the university to make advances fairly. If an advance is made without adequate justification then there is a waste of public money in that very fact. But the adverse effects on morale and reputation may be very much greater than this direct effect. Indeed, to push matters to extremes, there is hardly a situation more demoralizing than that in which ossified and incompetent members of the faculty occupy the highest positions.

Part II. Appraisal of Research

We now address ourselves to the problem of appraising research accomplishment.

1. The appraisal of research is a matter for the judgment of the department head. Nothing in the literature of the subject suggests that there is any legislation which the Senate should pass at this point. This report merely lists some considerations which may assist the department head (or other administrative agency) in the exercise of judgment.

2. A distinction must be made between research attainment and research potential. It seems reasonable that certain forms of advancement, such as adjustment of work load, should be based on an estimate of potential, whereas the more permanent forms of advancement, such as promotion in rank or increase in salary should be based upon actual attainment. The report is explicitly concerned only with the latter form of advancement.

3. One possible policy is to allow major advances to depend on offers to go elsewhere. This appears, superficially at least, to be a rather common policy. But it has the serious disadvantages already noticed in Section 3a. Consequently it is not recommended that this policy be followed. It is the duty of the department head to form his own appraisal of the research standing of his staff and to leave to outside offers only the correction of unavoidable errors.

4. There is no getting away from the fact that the best estimate of research accomplishment is made by other experts in the same field; and that these frequently differ among themselves, particularly in regard to advances which are brand new. Since there is not likely to be more than one expert in the same specialty on the staff — and even in cases where this is not true, the estimate is likely to be biased — it is imperative that opinions be attained from authorities in the same specialty at other institutions, and that there be enough such opinions to get a fair sample. There are various ways of doing this — by informal contacts at meetings, by correspondence, by visits, etc. The maintenance of such contacts is part of the business of departmental administration, and should be allowed for in determining what constitutes "official business" (for travel etc.).

5. The product of research is publication, and one can form some estimate of research attainments by examining the publication record. However this needs to be done with judgment. A mere estimate of the bulk of this output is likely to be misleading. This matter has received attention in the literature, in which several techniques for objective examination, not requiring expert knowl-

edge of the specialty concerned, have been discussed. The following are comments upon these:

a. The investigations by Dennis (1) show that there is a strong positive correlation between scientific eminence and quantity of publication as measured by enumeration of titles. Thus for an examination of 1% of the material in the Royal Society catalogue of the 19th century literature, the probability of being listed in the *Encyclopedia Britannica*, was 0.43 for the most prolific 10% of his sample, whereas for the remaining 90% it was 0.027. He noted, however that there were striking exceptions: the most prolific writer of all in his sample, a naturalist named John E. Gray with 883 titles, was not high by any reasonable standard of eminence; on the other hand Gregor Mendel, with only 7 titles, was quite low in the quantitative scale (although 50% had no more).

b. One difficulty with the use of the count of titles, pages, or what not as an index of achievement is that it is possible for a person who is aware of this policy to design his publication program so as to give an unduly favorable impression. This effect was not present in the studies by Dennis, but it will be present whenever the method is used for evaluating the work of active personnel. Moreover it is difficult to allow for, since even great scientists often publish what are in effect different accounts of the same research, — and indeed, since they have more opportunities for such publication, they may do so more often than an ordinary person. Furthermore such a policy puts pressure toward inflation of publication, and such pressure may be detrimental to the public interest.

c. Even aside from the considerations just adduced, there are other difficulties with the use of bulk quantity as a measure of achievement. Everyone knows that the great scientists, even in the same subject, differ in quantity of publication in ways which are not related to their scientific importance. Thus a list of prolific mathematicians arranged in order of quantity of publication, would probably not be acceptable to any mathematician as indicating their order of scientific importance; and, presumably, the same could be said in any other science. Moreover there are probably systematic differences between subjects, although there is no quantitative data on this question in the literature consulted in the preparation of this report. However the factor of quantity is not to be ignored completely; it is to be interpreted in the light of various considerations mentioned here; and where it seems low in comparison with what might be expected, one may require whether there is not, as there was in the case of Mendel, some extraneous impediment which can be removed.

d. One way in which a list of publica-

tions can be critically improved is with reference to the journals in which the articles appear. A department administration can be expected to be aware of the publication standards of the various journals in its field, and to modify the estimates of publication quantity accordingly.

e. In connection with the appraisal of scientific journals, various persons have suggested objective means of rating such journals by tabulating citations to them. The latest study of this sort is Raisig (3), which refers to earlier efforts; to a lesser extent see also Weiss (6). By these means it is possible to supplement the judgments mentioned in Section d by quantitative data.

f. Westbrook (7) suggests that the method of counting citations can be used instead of counting titles or pages to get an estimate of the quality, as well as the quantity, of the research output of individuals and groups. He has given evidence that in this way one can get reliable indications of the quality of the output of research laboratories and institutions. To carry this far enough to get useful appraisals of the work of individuals would appear to be possible in principle. But there would evidently be difficulties about it. In the first place there would have to be a lot of clerical and statistical work. In the second place citations of the work of an individual are rare phenomena, and as always with such phenomena, there is a large uncertainty due to the possibility that citations may be missed. Nevertheless the method may be valuable as a supplement to other methods. Furthermore it suggests that administrative authorities should be alert to the existence of such citations, and that authors might be encouraged to bring such citations to their attention along with the publications themselves.

6. A certain number of publications give the impression that in industrial research establishments publications are not regarded as an extremely important criterion of research attainment (e.g. see (4)). Presumably this is because the products of research activity do not generally appear in the form of publications. In a university, however, the results of research are expected to be published, and therefore the quality and quantity of the published record is a matter of prime importance. But in certain cases the results of research, and scholarly activity generally, may appear in other forms. This should not be lost sight of. Likewise evidence of the impact of research activities on the scientific community — as indicated by honors, grants, speaking invitations, etc. — needs to be noted and taken into account.

7. This report is concerned with the evaluation of research accomplishment only. Nothing in this report should be construed as belittling other forms of service which the individual may render, or as implying that research attainment is the only factor

to be taken into account in questions of advancement. These other questions are simply not within the purview of this committee.

Bibliography

- (1) Wayne Dennis. *Bibliographies of eminent scientists*. *Scientific Monthly* 79:180-183 (Sept. 1954).
- (2) J. C. Fisher. *Basic research in industry*. *Science* 129:1653-1657 (19 June, 1959).
- (3) L. Miles Raisig. *Mathematical evaluation of the scientific serial*. *Science* 131:1417-1419 (13 May, 1960).
- (4) Calvin W. Taylor + Wm. R. Smith + Brewster Chiselin. *Analyses of multiple criteria of creativity and productivity of scientists*. In (5), 1959 pp. 5-28.
- (5) University of Utah. *Research conference on the identification of scientific talent*. Calvin W. Taylor, principal investigator. 1st conference 1955; 2nd conference 1957; 3rd conference 1959. (Available in PSU Engineering Library G507.2 R31r.)
- (6) Paul Weiss. *Knowledge: A growth process*. *Science* 131: 1716-1719 (10 June, 1960).
- (7) J. H. Westbrook. *Identifying significant research*. *Science* 132:1229-1234 (25 Oct., 1960).

News in Brief —

(Continued from page one)

Gray was distinguished alumnus in 1960 and Fox in 1956.

➤ **CHEMISTRY:** Dr. Erwin Fishman, professor of chemistry, Syracuse University, will address the Central Pennsylvania Section of the American Chemical Society Tuesday, Dec. 12 at 8 p.m., in Room 111 Boucke. He will speak on "Experimental Effects on Molecular Vibrations."

➤ **TO SPEAK:** William Golding, author of "Lord of the Flies," "The Inheritors," and "Pincher Martin" has accepted an invitation to speak at University Park March 13, 1962. He is currently in this country as a visiting professor at Hollins College, Virginia.

➤ **PARADE:** Because of the disturbance to classes in session when 50 or more high school bands paraded on campus Nov. 17, Band Day, a committee is now studying possible routes for future parades to eliminate this objection.

➤ **CLOSED:** Beginning immediately, the following parking areas will be closed every night from 2 a.m. to 6 a.m. during the winter months: 5, 11, 17, 23, 30, 32, 40, 41, 46, 50, 61, 70, and 71. Purpose of the closing is to facilitate snow removal.

➤ **SPORTS:** With the absence of students between terms, more seats will be available in Recreation Building for athletic events coming in the next two weeks for faculty and townspeople. Admission price is \$1.50 when two events are scheduled and \$1.00 for single events.

CALENDAR

Friday, Dec. 8

Faculty Women's Pot Luck Supper, Rec Hall, 6:30 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. J. C. Belshe, department of geodesy and geophysics, Cambridge University, England, on "Studies of the FeO-Fe₂O₃-TiO₂ System and Applications in Paleomagnetism."

Saturday, Dec. 9

Wrestling, vs. Navy, 8 p.m.

Tuesday, Dec. 12

Meeting of Central Pennsylvania Section, American Chemical Society, 8 p.m., Room 111 Boucke. Dr. Erwin Fishman, department of chemistry, Syracuse University, on "Environmental Effects on Molecular Vibrations."

Saturday, Dec. 16

Wrestling, vs. West Virginia, 7 p.m.; basketball, 9:15 p.m.

Tuesday, Dec. 19

Basketball, vs. Syracuse, 8 p.m.

Television Listings

(for week of Dec. 11, WFBG-TV, Altoona)

FARM, HOME, and GARDEN

1 - 1:30 p.m.

Monday - Laura Leitzel, sew a Merry Christmas.

Tuesday - Fred Hughes, decision making.

Wednesday - Russell Seward, poultry ventilation.

Thursday - Glenn Zepp, social security.

Friday - Paul Reber, house plant insects.

FOOTBALL

WFBG-TV, Altoona, as an affiliate of the Columbia Broadcasting System, will carry the telecast of the Penn State-Georgia Tech football game in the Gator Bowl, Saturday, December 30. Game time is 2 p.m., but there will be pre-game activities.

Items of Interest

Lectures and Talks

BUGBEE, H. G., JR., philosophy, a talk before the Philosophy Club of Tufts University Nov. 21 on "Further Reflections on Creation."

COLWELL, R. M., accounting, a talk before the Ohio Regional Group of the American Accounting Association on, "Teaching Accounting by Closed-Circuit Television."

DUBLIN, S. S., Continuing Education, a talk on "The Teacher's Role in Early Identification and Prevention of Emotional Disturbances" at the Central Pennsylvania Conference for Teachers in Dauphin, Perry, Snyder, and Juniata counties.

FRANKSTON, LEON, art education on leave, a series of seminars and lectures at Donnell Library Center, New York, on art work with children.

GJESDAHL, M. S., mechanical engineering, convocation address at the Fourth Engineering Alumni College at the University of Rhode Island on "Creativity in Engineering."

KENNINGTON, RICHARD, philosophy, a lecture on "The Morality of Descartes," at St. John's College, Annapolis, Dec. 1.

MCKINLEY, D. H., Business Administration, a talk on "Gold and the U.S. International Balance Sheet," before the Pennsylvania Northwest Chapter of the National Association of Accountants at St. Marys.

O'BRIEN, H. J., speech, a talk before the Sales Executive Council of Baltimore on "Why Don't They Listen?"

PATTON, STUART, dairy science, lectures on flavor problems in milk at the Universities of California, Nevada, Illinois, and Oregon State.

TORKELSON, G. M., education, a talk on "Automation in Education" before the American Association of University Professors Chapter at East Stroudsburg State College.

TRIBBLE, O. H., management training, a talk on "Challenges to Present-Day Supervisors" for 100 supervisors at the Veterans' Administration Hospital, Leech Farms, Pittsburgh.

WELLINGTON, A. M., counselor education, a talk before the annual assembly of the Association of Science and Mathematics Teachers in Chicago on "New Approaches in Teaching."

Personnel matters

Dr. Sidney Siegel, research professor of psychology and a member of the faculty since 1954, died suddenly at the age of 45. Both he and his wife, Alberta Siegel, were on leave this year for research at the Center for Advanced Study in the Behavioral Sciences in Palo Alto, Calif., and he died in his wife's office at the Center. He had served there as a fellow in 1957 and was the first Center fellow to be invited back for a second time. He has been preparing for publication reports concerning the research which he and his co-workers have conducted during the past three years under grant support from the National Science Foundation and the Ford Foundation.

Dr. Charles Freeman, extension rural sociologist, has resigned effective Jan. 1 to accept a position as head of citizenship and leadership education of the National 4-H Foundation. He will direct the Foundation's 4-H citizenship short courses and 4-H leaders forums.

Mrs. Carol H. Burt, superintendent of the University Hospital for the past 14 years, will retire Jan. 31. Mrs. Madeline S. Homan, R.N., formerly nurse in charge of the Dispensary, has been named to succeed Mrs. Burt.

NITTANY LION INN

Food service, including breakfast, lunch, and dinner, will be maintained at the Nittany Lion Inn throughout the period between terms, including the entire Christmas period, Louis E. Silvi, manager, announces.

faculty BULLETIN

Vol. 49, No. 21

Dec. 8, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Housing

Of the 17,407 students registered at University Park during the Fall Term, 56.8 per cent, or 9,887, lived in campus housing. Last year, of the 16,091 registered 8,797, or 54.6 per cent, lived on campus.

Very slight changes have taken place in other categories during the past year, also. For example, students living in fraternities total 2,034 (11.7 per cent) during the Fall Term, as against 1975 (12.3 per cent) a year ago. Students living at home, in private residences, or in trailers, now total 5,486 as against 5,319 a year ago.

Since 1957 enrollment has increased by 3,276 and the number of students housed on campus by 3,950 and in the meantime the number living at home, in private residences, or in trailers, has decreased from 6,192 to 5,486. Those living in fraternities numbered 2,102 in 1957, virtually the same as this year.

Among undergraduate students 63.4 per cent live on campus (94 per cent of the women students do) and of the graduate students, 19.4 per cent live in campus housing.

GREETINGS

This is the concluding issue of Faculty Bulletin for 1961. May we take this opportunity to wish faculty and staff a very joyous Christmas and a happy and bright New Year.

The next issue of Faculty Bulletin will appear January 5.

Advisory Council Approved

A University Advisory Council for Teacher Education has been approved by President Walker, to become operative as soon as practicable.

The functions of the new Council are to be informational and advisory, rather than administrative, and in the interest of effective collaboration among the colleges and departments which contribute to the education of teachers.

Specific purposes of the Council are to (1) study teacher education and clarify issues pertaining thereto; (2) encourage broad interest within the University concerning the education of teachers; (3) identify ways by which the University might improve and enhance its contribution to the Commonwealth and to the Nation through research, instruction, and continuing education services of personnel participating in the University programs of teacher education.

The Council will consist of 24 members, including the Vice President for Academic Affairs, Dean of the College of Education, and the Associate Dean of the College of Education as ex officio members. The Associate Dean of Education will be the secretary. The other 21 members will represent the department of teacher education and the colleges of the University.

One member each will be selected from the following departments: agricultural education, art education, educational services, elementary education, home economics education, industrial education, music education, physical education, secondary education, and psychology. College representatives will include Engineering and Architecture (1), Mineral Industries (1), Chemistry and Physics (2), Business Administration (1), The Liberal Arts (4), and the Division of Biological Sciences (2).

Members will serve for three years, seven members to be appointed annually.

Principal activities of the Council will be:

(1) To study the various teacher education programs conducted at the University.

(2) To visit schools and colleges in order to maintain up-to-date knowledge of institutional programs for which the University prepares teachers.

(3) To engage in seminars and conferences on teacher education — elementary, secondary, and collegiate.

(4) To study coordination of University resources for teacher education and to advise concerning ways

to achieve coordination where it is needed.

(5) To review teacher education programs, policies, and experimental projects of other colleges and universities for the purpose of determining their implications for Penn State.

(6) To consider matters pertaining to teacher education brought to their attention by the departments of teacher education, the Dean of the College of Education or any other officers or agencies of the University.

NEWS IN BRIEF

► **SENATE:** The next meeting of the University Senate will be held Tuesday, Jan. 9, at 3:55 p.m. in Room 121 Sparks. Please note that this is the second Tuesday of the month, although meetings are usually held on the first Tuesday.

► **BLUE BAND:** Penn State's famed Blue Band will present a five-minute pre-game show at the Gator Bowl Dec. 30 and play the Star Spangled Banner prior to kickoff. The Band will leave for Jacksonville from Washington, D.C. by train Wednesday, Dec. 27, and leave Jacksonville for home immediately after the game.

► **INVENTION:** Four members of the Ordnance Research Laboratory staff, Richard E. Bland, John E. LeFrancois, Harry F. Wegener, and William J. Leiss, have invented a "Directional Underwater Magnetostriction Transducer" for which a paper patent will be issued by the U.S. Patent Office when a secrecy order is removed from the application.

► **PROSPECTS:** Job prospects for 1962 graduates appear good at this time, according to G. N. P. Leetch, director of placement. Interviewing of students will begin in January, a month earlier than in past years. In 1961, 400 recruiters interviewed an average of a thousand seniors a week. Starting salaries, Leetch estimates, will be higher by 3-5 per cent than last year when they averaged \$485 per month.

► **CHAIRMAN:** Dr. Dale B. Harris, professor of psychology, has been named chairman of a Conference on Research on Motivation to be held by the American Educational Research Association January 18-19. Included

(Continued on page four)

Senate Minutes

Meeting of December 5, 1961

The University Senate met at 3:55 p.m. on Tuesday, December 5, 1961 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the November 7, 1961 meeting were approved as printed in the Faculty Bulletin for November 17, 1961. One hundred forty senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: J. W. Bratzler (T. A. Long), H. W. Dunne (A. J. Winter), Iline Fife (R. S. Brubaker), A. R. Grove (W. R. Mills), K. W. Hylbert (A. M. Wellington), J. J. Kaufman (E. C. Budd), N. J. Palladino (W. S. Diethorn), J. K. Pasto (P. G. Helmberger), H. J. Read (E. R. Ryba), and O. A. Schmidt (W. K. Murphey).

New Senator

A letter was read from the College of Mineral Industries that Allan L. Rodgers had been elected to replace C. J. Hosler for the 1961-1963 term.

The secretary announced that policies relative to continuing education have been received from all the Colleges except two and these will be in before December 11.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved approval of the proposals listed under Items I A and I B. The motion was seconded and passed. He stated that Item II was for the information of the Senate and did not require action. The complete report is on file in the office of the secretary.

Joseph Marin, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report which had been distributed with the agenda as Appendix "B." He asked that this report entitled "Progress Report on Evaluation of Research" as prepared by Prof. H. B. Curry be received by the Senate. The President accepted the report for the Senate. Mr. Marin stated that arrangements have been made for the publication of this paper in the University Faculty Bulletin in the December 8th issue. The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

D. H. McKinley announced that Commencement for the Fall Term, 1961 would be held on Saturday, December 9, 1961 at 10:30 a.m.

President Walker discussed current problems concerning communications with students. He suggested additional methods of communication between the Administration and the student body. He also reported that first hearings on next year's budget had been held with the Governor's staff. He further discussed problems arising from the change to the four-term calendar. J. A. Sauer suggested an extra final examination period and J. G. Aston suggested a shortened term with an accompanying increase in independent study.

The next regular meeting of the University Senate will be on Tuesday, January 9, 1962 at 3:55 p.m.; the agenda will be distributed on December 27, 1961.

The meeting adjourned at 4:20 p.m.

(Secretary's note: Following the regular
(Continued on page four)



Dr. Leonard Raver, new Chapel organist, has had the opportunity to play on some of the finest organs in this country and Europe.

Organist has distinctions

THE University's new Chapel organist, Leonard Raver, has had many distinctions, numbering among them the privilege of playing on some of the finest instruments in Western Europe and in this country.

The European experiences obtained during a two-year study program under a Fulbright grant. With home base in Amsterdam, where he worked with Gustav Leonhardt at the Conservatory of Music, Dr. Raver played in Rotterdam, The Hague, Leiden, and many other towns, where the instruments are frequently of the very finest quality.

In this country, Dr. Raver has only recently had the signal honors of playing at the Church of the Ascension and at the Museum of Modern Art, both in New York, and in the past in many churches having outstanding organs. At the Museum of Modern Art, he played Roger Sessions' Mass, with the composer conducting, and at the Church of the Ascension he performed a service of music of new works by American composers written for and dedicated to Dr. Raver.

The European stay was for the purpose of studying Baroque music and very old organs and harpsichords. So productive and promising was the first year's work that the Fulbright Committee gave him a second year's grant. By-products of his visit are copies of manuscripts of music of three or four centuries ago seldom

available now in published form. Some of these will be useful additions to his repertoire, for his teaching, and to go into a volume of music he is currently editing for Galaxy Music Publishers.

Two of the best organs Dr. Raver experienced in Europe were in churches in the Dutch towns of Alkmaar and Zwolle, where the 15th century Gothic Church of St. Michael is located. The famous organ builder Arp Schnitger was responsible for both organs, which, in common with many instruments in Europe, were built specifically for the church, making fullest use of the acoustical properties available.

"Many of these organs are in the very best condition after centuries of constant use and expert maintenance," Dr. Raver says. "There is no reluctance to permit students to use the organs because they believe, as I do, that an organ is better for its use and that in permitting more students to use the organ, the bigger the supply of qualified organists will be."

One of the more unusual pleasures Dr. Raver experienced was playing on harpsichords in the world-famous collection at The Hague. The collection includes Italian, German, French, and English instruments and is so popular an attraction that a full-time curator is needed.

Among the other experiences were playing at the home of the American

ambassador in The Hague; a concert at Trier, Germany; and two concerts in Paris. One of the latter programs was played for the French radio and at St. Eustache he played for mass and later a recital in the home of the organist, Andre Marchal.

In the near future, Dr. Raver will give a number of concerts or recitals here and elsewhere. On Jan. 21, he will give an organ recital on campus, and later he will give an organ-harp-sichord recital at Williamsport; an organ recital in February at Bates College; in March a concert of new and old music at St. Thomas Church in New York; and in April a recital for the Boston Guild of Organists.

A graduate of the College of Puget Sound, Dr. Raver obtained the master of music degree at Syracuse University and doctor of sacred music at Union Theological Seminary. He was visiting professor of music at Bates College last year, directing two choral groups, arranged recitals and concerts, and played the organ for chapel service. He taught at the seminary from 1955 to 1958 and previously at the University of Dubuque for two years.

English institute

LAST year the Commission on English of the College Entrance Examination Board issued a brochure titled, "Preparation in English for College-Bound Students" in which, in part, were given the Commission's views on what's wrong with the programs of English in American secondary schools.

The Commission said that the programs suffer from three serious faults: (1) working conditions for both students and teachers are far from satisfactory; (2) many of those now teaching English are insufficiently trained for the work they are supposed to do; (3) there is much confusion about what the legitimate content of the curriculum should be and too little coordination of its parts.

Penn State is one of 20 colleges and universities in the nation which next summer will try to do something about at least points (2) and (3) through Summer Institutes for English Teachers which are being supported by grants from a number of foundations.

The approach to be taken by the Institute, explains Dr. John S. Bowman, professor of English and director of the University's program, was worked out last summer at a Planning Institute at the University of Michigan. The planning session enrolled three representatives of each of the 20 participating colleges and their job was

CALENDAR

Friday, Dec. 15

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. B. O. Koopman, professor of mathematics, Columbia University, on "Can the Lessons of Military Operations Research be Applied to the Mineral Industries?"

Saturday, Dec. 16

Varsity wrestling, vs. West Virginia, 7 p.m.; varsity basketball, vs. West Virginia, 9:15 p.m., Rec Hall.

Tuesday, Dec. 19

Basketball, vs. Syracuse, 8 p.m., Rec Hall.

Friday, Dec. 22

University offices closed, will reopen Dec. 27.

Monday, Dec. 25

A Very Merry Christmas.

Thursday, Dec. 28

Charity Ball, HUB ballroom.

Monday, Jan. 1, 1962

A Happy New Year.

Wednesday, Jan. 3

Winter Term registration begins.

Friday, Jan. 5

Winter Term classes begin, 8 a.m.

to develop the Summer Institute programs, select the texts, and reach agreement on procedures which best satisfy the purpose of the Institutes. In addition to Dr. Bowman, the sessions were attended by Dr. Agnes R. McElwee, professor of English composition, and Dr. Wilfred T. Jewkes, assistant professor of English, both of whom will assist Dr. Bowman next summer.

Of immediate concern of the Institutes are the teachers in the 9-12 grades, and since a total of only 900 will be enrolled in the 20 colleges, other limitations on enrollment have been established. Teachers must have had at least three years' experience in teaching secondary school English, must have at least ten years to go before retirement, and must be from schools which regularly send a substantial proportion of their graduates to college. There are other requirements.

Penn State enrollees will come from a 20-county area in Central Pennsylvania.

One of the major features of the program is that it does not stop with the Summer Institute itself. Teachers are expected to make use of the principles developed in the Institute wherever feasible in their schools. The college instructors will serve as consultants to the participating teachers, helping to interpret the Commission's program to administrators and

(Continued on page four)



Dr. Teresa Cohen

Personnel matters

Dr. Teresa Cohen, who has taught mathematics at Penn State since 1920, will retire Dec. 31.

In her career here, Dr. Cohen taught some 7,000 students and helped many more through advising and tutoring.

A graduate of Goucher, Dr. Cohen was granted advanced degrees by the Johns Hopkins University. She was hired by the then head of the mathematics department, Dr. Joseph Willard, in spite of reservations he had about women teachers. She is even now one of the few women to hold the title of professor of mathematics.

A member of Phi Beta Kappa, she has held all of the offices in the University chapter of the Society.

She has no plans for travel, but will remain here and hopes to audit some mathematics courses and help students wherever possible.

Elwood B. Cassell, assistant professor of engineering graphics, retired, effective Dec. 8. He joined the faculty in 1932 and had previously served for ten years in the Department of Public Instruction at Harrisburg as assistant director of school building plans. He graduated from Penn State in architectural engineering in 1919. In addition to courses in drawing, he also taught at various times courses in architectural engineering and engineering mechanics.

Carl William Haeseler, graduate of the University of Massachusetts now working on his doctor of philosophy degree in pomology, has been named extension pomologist effective Dec. 1. He did graduate work at Cornell University for his master of science degree.

Senate —

(Continued from page two)

meeting of the Senate a meeting of the elected members of the Senate, under the chairmanship of Donald G. McGarey, was held. At this meeting Dr. Arthur H. Reede of the College of Business Administration was selected by the elected members of the Senate to replace Lawrence E. Fouraker on the standing Joint Committee on Tenure of the Faculty and Administration.)

Robert G. Bernreuter
Secretary

ANNUAL REPORTS

COMMITTEE ON ACADEMIC STANDARDS 1960 - 1961

During 1960-1961, the Senate Committee on Academic Standards acting under the authority of the Senate By-Laws decided one hundred eighty-eight cases involving reinstatement of dropped students or the granting of exceptions to existing residence requirements. The Committee has also deliberated, and in some cases recommended Senate action on, the following matters: implementation of an all-University Honors Program, student exemptions from the required physical education program for religious reasons, application of minimum grade-point average requirements under the new calendar system, final examinations and common evening examinations in relation to the 10-week term, procedures for removing failing grades and for encouraging students to obtain course credit by examination, and proposed modifications of the University's principle undergraduate residence requirements (Senate Regulation E-3).

Arthur D. Brickman
Chairman

COMMITTEE ON CALENDAR AND CLASS SCHEDULE 1960 - 1961

In the early fall of 1960 the University Administration announced the institution of the new Term System as the basic calendar for the Pennsylvania State University, effective with the summer term of 1961. The short time available for making the change effective created a great deal of work for all those concerned with putting the new plan into effect. This did not, however, in-

terfere very much with the campus-wide discussions of the merits and disadvantages of the new system.

The Senate Committee on Calendar and Class Schedule recognized that this change would completely invalidate all previous calendar policies and that it would create unsuspected problems which would have to be solved as it went into effect. It felt, however, that it should take no action during the early stages of the transition. Early in 1961, however, the Committee met to review the reactions which had come to it and to prepare a new calendar policy in keeping with the new term system.

As a result of these meetings the Committee prepared a new calendar policy for the term system to replace the old semester system policy, and presented it to the University Senate at its June 1, 1961, meeting. The proposal was approved by the Senate.

The Senate Committee on Calendar and Class Schedule foresees problems inherent in the new term system which will have to be studied as experience is gained with the system. The most serious of these are apt to be the lack of any special provision for final examinations and an inadequate period for lunch between the third and fourth periods of the day. Undoubtedly other problems will arise. The Committee must watch the operation of the term system closely and propose changes as the needs become apparent.

B. A. Whisler
Chairman

English —

(Continued from page three)

to encourage the English teachers in the participating schools to examine new course materials.

Each of the participants will receive tuition and fees and a stipend of \$350, which will exceed the cost of housing and board. The Commission on English is providing the grants.

The Institute will consist of three parts, each meeting three periods weekly: Composition, Language, and Literature. About six hours will be spent in workshops each week.

News —

(Continued from page one)

on the roster of conferees are representatives of the U.S. Office of Education and of the universities of Illinois, California, Missouri, Minnesota, and Harvard.

► **MEXICO:** Benjamin W. Niebel, head of the department of industrial engineering, is currently on a 10-day assignment in Mexico assisting the Agency for International Development and the Mexican Industrial Productivity Center. He is visiting the Monterrey Institute of Technology, the National Polytechnic, and the National University to assist the institutions in the development of industrial engineering courses.

► **BAR:** Thomas E. Sterling, legal assistant to the President, has been admitted to practice before the United States Court of Claims. He has been admitted previously to practice before the Supreme Court of the U.S., the bars of New York, District of Columbia, and other federal courts.

► **MUSEUM:** The Mineral Industries Museum, normally open on weekends, will be closed Dec. 23-26 and Dec. 30-Jan. 2.

► **TELECAST:** A half-hour television program originating on the campus will be presented by WFBG-TV, Channel 10, tomorrow (Saturday) at 5 p.m. Titled "Protection in the Nuclear Age," the telecast will feature Gifford H. Albright, Anthony H. Foderaro, and Melvin W. Isenberg, of the College of Engineering and Architecture. A highlight will be a filmed report on the prototype fallout shelter constructed in the laboratory of the University's Research Shelter Project.

faculty BULLETIN

Vol. 49, No. 22

Dec. 15, 1961

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

NEWS IN BRIEF

► **PHI BETA KAPPA:** Dr. Henry W. Johnstone, Jr., profesor of philosophy, was elected president of Lambda chapter of Phi Beta Kappa at the annual Founder's Day banquet. Other officers elected include D. C. Whitmarsh, secretary; Margaret B. Matson, treasurer, and Carl E. Marquardt, historian. Named to the Executive Committee were Philip A. Klein, Robert V. Boucher, and Francis E. Hyslop.

► **COLLECTION:** Thomas Hartswick, of San Diego and formerly of Clearfield, Pa., has given to Pattee Library many of the papers of his mother, Jennie Betts Hartswick, who wrote and composed light verse in the 1890-1920 era. Many of her contributions appeared in publications such as *Success*, *Delineator*, *Atlantic Monthly*, and the former *Life* magazine. She wrote homey, pleasant stories and some book reviews under the names of Cornelia Finley and John Esterby. Included in the collection are the manuscripts of 13 stories and four poems, as well as newspaper articles.

► **EXAMINATION:** The next written foreign language reading examination will be given January 29. Graduate students who have previously failed the written test must complete arrangements today (Friday) by registering in Room 227 Sparks for German, Room 246 Sparks for English, and Room 300 Sparks for French and Spanish.

► **THOMAS:** From the estate of the late Dr. Walter Thomas, the Univer-

(Continued on page two)

Centennial banquet

Dr. Evan Pugh, first president of the University, will be honored at a banquet Saturday, Feb. 10, in the HUB ballroom.

Arranged by the Senate Faculty Affairs Committee, cooperating with the Land-Grant Centennial Committee, the banquet will be one of the feature events of the University's Centennial Observance.

Pugh worked long and diligently in support of legislation to establish the land-grant college concept and the Morrill Act resulted. It is President Abraham Lincoln's signing of the Act in 1862 which is being celebrated this year by state colleges and universities all over the country.

Principal speaker for the banquet will be Dr. David Dodds Henry, president of the University of Illinois. Dr. Henry obtained all three degrees at Penn State and taught English from 1926 to 1929. Subsequently he served as director of the School of Liberal Arts, Battle Creek College; State Department of Public Instruction of Michigan; executive vice president and president of Wayne University;

executive vice chancellor of New York University. He became president at Illinois in 1955.

Drs. David R. McClay, head of the department of agricultural education, and Donald G. McGarey, professor of secondary education, are co-chairmen of the banquet.

Tickets, priced at \$2.50, may be obtained from the following persons:

Agriculture — S. I. Auker, 108 Armsby
Business Administration — W. M. Hench, 130 Boucke
Chemistry and Physics — Alice Long, 211 Whitmore
Education — G. J. Free, 103 Burrowes
Engineering — MacDonald Heebner, 101 Hammond
Home Economics — Mrs. Joan Whittier, 119 Home Ec
Liberal Arts — H. J. O'Brien, 138 Sparks
Mineral Industries — Mrs. Delores Warrington, 101 M. I.
Physical Education — Mrs. Mary Sprankle, 250 Rec Hall
Old Main — Robert E. Beam, 107
Willard — Robert E. Tschan, 103
Continuing Education — Thomas Hammonds, 303
Commonwealth Campuses — K. L. Holderman, 206 Old Main
Centre County Alumni — Mary S. Neilly, 104 Old Main
Retirees — J. S. Cobb, vice president, Retirees Club

Appeal made

A brief has been filed in behalf of the University before the U. S. Court of Appeals for the District of Columbia Circuit regarding the refusal of the Federal Communications Commission to grant television channel 3 to Penn State for non-commercial, educational purposes.

The brief was filed Dec. 6 by Norman E. Jorgensen, Louis Schwartz, and Robert A. Woods, of Washington, D. C., attorneys for the University in this case, against the Federal Communications Commission and the U.S. Government as respondents, and the American Broadcasting Co.-Paramount Theatres, Inc., and Rivoli Realty Co., as intervenors.

Specifically, the questions presented to the Court are:

1. Whether the FCC properly refused to allocate and reserve Channel 3 at University Park, Pa., for non-commercial educational use.
2. Whether the FCC properly concluded that a third full-time network commercial facility at Johnstown, Pa., was to be preferred to a first full-time non-commercial educational facility at University Park, Pa.

In the brief arguments, the Univer-

(Continued on page two)

Farm Show

The Land-Grant Centennial and Penn State will be honored at the 46th annual Pennsylvania Farm Show at Harrisburg next week, and many faculty members will again have an active part in the program.

The Farm Show is expected to attract an estimated 645,000 people in the five days and four nights it will be held.

Among those on the Farm Show Commission are Dr. Lyman E. Jackson, dean of the College of Agriculture; H. R. McCulloch, assistant director of Agricultural and Home Economics Extension, and L. H. Bull, also Ag Extension assistant director. Dr. H. R. Albrecht, former director of Ag Extension who resigned Dec. 31, was also a Commission member.

Faculty members who will serve as judges during the Farm Show include Glenn R. Kean (sheep), John R. Bratzler (grass silage), Ronald A. Bartoo (sugar maple products), Werner J. Mueller (eggs), Edward G. Buss (baby chicks and poults), Paul H. Margolf (dressed turkeys, poultry), Mrs. Naomi Naylor (child care), Frank Anthony (rural talent contest), William L. Kjellaard (rural talent contest), and Russell R. Murphy (eggs).

(Continued from page one)

sity has been given stocks valued at \$175,750, the income from which is to be used to establish scholarships and fellowships in the department of horticulture. Dr. Thomas came to Penn State in 1910 and retired in 1950 as professor of plant nutrition. He spent the next ten years in Florida and died two years ago at 79.

➤ **ADMISSIONS:** About 530 new students, including those readmitted, will enroll for the Winter Term this week. Among them will be 50 new freshmen, 50 transferring from other colleges, and about 110 transferring from Commonwealth Campuses to the University Park campus.

➤ **EXHIBIT:** An exhibit of recent paintings by Herbert Aach will be held at the HUB art gallery Jan. 9-27. Aach, native of Pennsylvania, recently gave a one-man show at a New York gallery and was acclaimed. He is an abstract painter.

➤ **TELEVISION:** A nationally televised series of programs titled "Meet the Professor" will begin Sunday, Jan. 7, at 2:30 p.m. over the ABC television network. The series is a cooperative venture of the Association for Higher Education, NEA, and the ABC Public Affairs department. The series of 25 half-hour shows will run until mid-June, featuring each week a different professor, in his classroom, laboratory, office, and in this public service.

➤ **FACULTY:** The first meeting of the Faculty Luncheon Club for the Winter Term will be held Monday, Jan. 8, at 12:30 p.m. in the HUB dining room "A". J. O. Keller, who spent five years with the Technical Cooperation Mission in India, will speak on "The Management Program in India." The Committee for the Winter Term includes Barbara Densmore, Evelyn Hensel, David W. Russell, Harold P. Zelko, and Chauncey Lang, chairman.

➤ **SENATE:** The University Senate will next meet Tuesday, Jan. 9 at 3:55 p.m. in Room 121 Sparks.

Artists series

Janos Starker, cellist, will present the next program in the Artists Series Friday, Jan. 12, in Schwab Auditorium. Tickets for this performance may be obtained at the HUB desk starting Wednesday, Jan. 10 and continuing Thursday.

Other programs in January will include those of "I Musici" on Thursday, Jan. 18, and The Cleveland Playhouse on Saturday, Jan. 27.

New show

Beginning Monday, Jan. 8., a daily television program originating on the University Park campus and presented over WFBG-TV, Altoona, Channel 10, will feature interviews with Penn State faculty members and administrators.

Titled "Folio 15", the program will be seen daily from 9-9:15 a.m., Monday through Friday, sponsored by the School of Journalism and the department of public information.

Marlowe Froke, Warren Bodow, and Gilbert Aberg will conduct the interviews, which will cover a variety of subjects related to news developments of the day.

Appeal —

(Continued from page one)

sity contends that the FCC in 1952 decided that, as a matter of basic allocations policy, reservation of certain television assignments for the exclusive use of non-commercial educational television stations was in the public interest, but that recent action of the Commission in assigning Channel 3 to Johnstown for commercial purposes was contrary to its own stated policy.

Allocation of Channel 3 to commercial interests would leave the entire Commonwealth with only one VHF educational television channel (in Pittsburgh), the brief points out, and the large Central Pennsylvania area would be without the advantages of educational television programming on VHF. The use of UHF channels is impractical, it is argued, because of the limited range of UHF signals in the mountainous areas and because few homes have UHF receivers.

On the same day that the Commission refused the University's application for VHF Channel 3, similar applications in Grand Rapids, Mich., and Rochester, N. Y., were turned down by the Commission in favor of commercial television. The brief points out that the FCC has publicly announced that it has not provided additional VHF outlets for education and does not now contemplate such a course, contrary to its basic policy.

It is also argued that the Commission has itself voiced substantial doubts as to the quality of network programming, yet it has apparently concluded that the addition of more such programming in Johnstown (through providing additional time for American Broadcasting Co. via Channel 3) would be preferable to a new and different and public service programming of an educational facility (the first such in the area) at Penn State.

Appropriation

EARLIER this week, President Erie A. Walker indicated that the recommendation by Governor Lawrence of an annual appropriation for Penn State of \$20 million for 1962-63 was \$4 million less than he had sought for the University.

The President said that the lesser amount recommended by the Governor would require a cutback in freshman admissions, a freeze in total employment, and postponement of planned research.

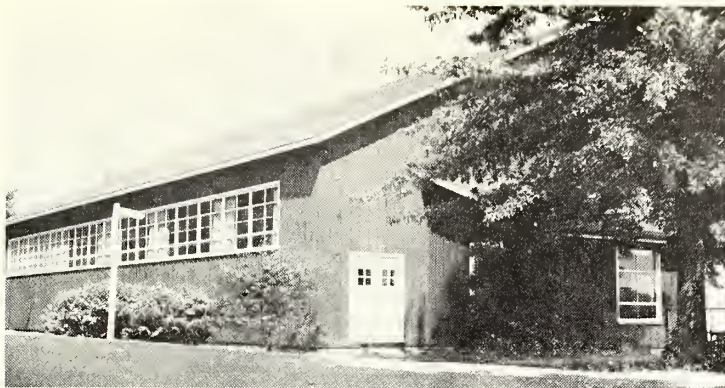
The President's full statement follows:

"In effect, the [Governor's] budget message asks Penn State to operate in 1962-63 with \$4 million less than its carefully estimated needs. Without fuller support, the University will have to cut back its freshman admissions again, freeze total enrollment at its present level, and postpone once again the research Pennsylvania needs to strengthen the Commonwealth's competitive position in an ever-changing economy.

"Qualified teachers, hard to find and harder to keep in an expanding market, present a special problem, since Penn State for many years has trailed other universities of comparable size and stature in its salary scale. Four times in the last six years the University has instituted tuition boosts to allay this problem. With a restricted State appropriation, it has no choice now except to look to its fee structure again as a source of new salary dollars.

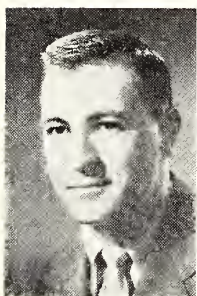
"None of these alternatives is desirable but until the Commonwealth meets its obligation more fully there is nothing the University can do except mark time and learn to live with year-by-year indecision concerning a Master Plan for higher education in Pennsylvania. This unfortunately precludes the kind and type of planning that is essential if Penn State is to do what Governor Lawrence's Committee on Education said it should do to help educate the college-going youth of Pennsylvania during the critical years ahead."

The President explained that \$2 million of the \$5.5 million increase he had requested was intended for faculty salaries; \$1.85 million to overcome budgetary imbalances caused by the admission during the last two years of 2,400 students for whom there was no direct aid from the State; \$650,000 to equip four new buildings already authorized by General State Authority; and \$1 million for new research designed to help the Pennsylvania economy.



At Behrend Campus near Erie, the new and old are represented by the gymnasium-auditorium at left and the main building which was the residence of Ernst Behrend, for whom the campus is named.

Behrend and Progress



Irvin H. Kochel

ERIE is the third largest city in Pennsylvania and the fifth most industrially diversified city for its size in the United States. At times it has been classified as an area of "surplus labor" and yet it is a busy lake-port community which has a bright future.

Within the Erie County area there are three sectarian schools, Edinboro State College, and the Behrend Campus of the Pennsylvania State University, to serve a total population of 220,000. It is an area of educationally-minded people.

Behrend Campus opened its doors in 1948 to 152 freshmen students and since then has "graduated" 2100 baccalaureate degree candi-

dates, 90 per cent of whom have gone on to University Park for upper class work. In addition, the alumni body includes some 150 day technical institute graduates, 250 two-year associate degree students, and 150 speech clinic graduates.

Many prominent Erie citizens, headed by J. Elmer Reed, started a drive just after World War II to develop a non-sectarian college in the city and at the suggestion of Edwin W. Nick a request was made to the University Board of Trustees to consider a junior college in the area. In the early months of 1948, Mary E. Behrend, widow of Ernst Behrend, founder of the Hammermill Paper Co., gave the 419-acre estate just outside Erie to the University and almost immediately a \$50,000 program to convert the buildings to a college campus was undertaken.

The aggressive efforts of the Advisory Board at Erie has made the Behrend Campus an outstanding junior college, which has been well accepted by the residents of the area. About 70 per cent of the students commute from within a 20-mile radius of the campus, and about 30 per cent reside in Wesleyville, right next door to the campus. Cooperation with other colleges in Erie has continued to grow; faculty members have presented lectures and symposiums to students of other institutions and the favor is returned. In addition, special invitations are extended to the other colleges whenever outstanding speakers are to appear on the campus and when students activities are to be of general interest, notices are sent to the other colleges.

Two-thirds of the day students at Behrend are in baccalaureate programs in Engineering, Liberal Arts, Business Administration, Education and Chem-Physics and to a lesser extent in other fields. Of the 175 baccalaureate students during the Fall Term, about 20 per cent were women (the campus has dormitory facilities for 24 coeds). The 108 associate degree students, all men, are enrolled in drafting and design or electrical technology, both of which fit well into the needs of such companies as General Electric, Hammermill Paper Co., Kaiser Aluminum Co., Bucyrus Erie, Erie Resistor, Inland Container Co., plastics producers, and a number of other industries in the area.

Behrend Campus students are among the most actively-organized of all the Commonwealth Campuses. The Student Government

Association has developed three very popular social events — Sno' Ball, Mardi Gras, and Spring Prom. The students publish a bi-monthly newspaper, The Nittany Club, a literary magazine named "Icarus," and a yearbook. In addition to a complete intramural program, the men can participate in soccer, basketball, baseball, and golf on an intercollegiate basis in the Junior College League and with neighboring colleges in Pennsylvania, Ohio, and New York. In short, along with the program of lectures and faculty-sponsored forums and other cultural events, student life at Behrend is as well-rounded as at University Park.

There are 18 full-time faculty members at Behrend, headed by Irvin H. Kochel, who succeeded T. Reed Ferguson in 1954. Two of the faculty — Louis W. Balmer, assistant professor of chemistry, and Thomas E. Campbell, assistant director — have been at Behrend since it was opened. All told the faculty averages six years at Behrend and 12 years in educational work generally. Dr. Elizabeth W. Smith, associate professor of zoology, is one of the few Commonwealth Campus faculty members carrying on a continuing research project. She has spent her summers and her spare time during the year doing research on bats in the caves of Kentucky and for her work has become a nationally recognized authority on bats.

Erie people have, from time to time, been called on to teach, also. A local attorney has taught business law, and engineers, physicists, accountants, and business men have supplemented the full-time faculty.

Seven of the full-time staff are Penn State graduates, and others are graduates of Rutgers, Columbia, St. Xavier, North Carolina, Penn, Missouri, Massachusetts Institute of Technology, and others.

The original campus buildings, residences, garages, and barns, have been converted to a classroom and laboratory building, library, dormitory and administration building, chemistry lecture and laboratory building, and several residences for faculty. In 1953 a gymnasium-auditorium was built with money from public subscription. It contains a student lounge, two bowling alleys, ping-pong area, and gymnasium, and has been named Erie Hall.

Now under construction is a classroom-science building which is expected to be completed by the fall. It has been named for Dr. Otto F. Behrend, brother of Ernst, who at his death in 1957 bequeathed to the campus the residue of his estate. The building will have an office wing, nine classrooms, a large lecture hall, a speech laboratory, engineering drawing rooms, and laboratories for chemical engineering, electrical engineering, biological sciences, and physics. As a result of this construction, it will be possible to enlarge the enrollment to 600 undergraduates.

As in most communities with Commonwealth Campuses, the Continuing Education offices are at the Campus, but in the case of Erie, much of the program is carried on in the heart of the city, to reduce the travel necessary by the students. Some programs, such as management training seminars, have been conducted on the campus, however. The area program in Continuing Education is directed by William E. Mosso.

Behrend is one of the most attractive of the Commonwealth Campuses and is in an area of great bustle and drive. The opening of the St. Lawrence Seaway has added to the commercial importance of the city and in tune with this development, the city and county have launched a major redevelopment program. It is inevitable that Behrend Campus will play an important role in the future of Erie and its environs.

Books

Dr. Earl P. Strong, assistant dean, College of Business Administration, and Robert G. Weaver, assistant professor of English, "Writing for Business and Industry," published by Allyn and Bacon, Inc., January 1. Includes mechanics of business writing, applications, business reports, dictation techniques, and English fundamentals.

Dr. Joseph Marin, head of the department of engineering mechanics, "Mechanical Behavior of Engineering Materials," to be published by Prentice-Hall in February. Intended for either elementary or advanced courses in materials or by practicing engineers and research personnel as a reference.

Dr. Ernest C. Pollard, professor of biophysics, with Dr. Richard B. Setlow, physicist with the Biology Division of Oak Ridge National Laboratory, "Molecular Biophysics," published by Addison-Wesley Publishing Co. A new textbook and reference for senior undergraduate and first-year graduate students.

Television Listings

(for week of Jan. 8, WFBG-TV, Altoona)

FOLIO 15

(9-9:15 a.m.)

Monday — John A. Denovo, associate professor of American History, on "One Year of Kennedy Foreign Policy."

Tuesday — Amos E. Neyhart, director, Institute of Public Safety, on "Transportation Problems in Yugoslavia."

Wednesday — Vernon V. Aspaturian, professor of political science, on "Goa and the Future of the U. N."

Thursday — Galen Hall, on "Postscript to the Gator Bowl."

Friday — Robert K. Murray, head of history department, on "The John Birch Society."

CALENDAR

Saturday, January 6

Graduate Student Association Square Dance for faculty and graduate students, 8:30 p.m., Lutheran Student Center.

Sunday, January 7

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Sam Gibson.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Gallery talk by Dr. Jules Heller, director, School of the Arts, 7 p.m., HUB gallery.

Monday, January 8

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". J. O. Keller, on "The Management Program in India."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. J. C. Ludlum, distinguished lecturer, American Association of Petroleum Geologists on "Prospects and Structural Problems of Exploration for Natural Gas in the Appalachian Area."

Tuesday, January 9

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A". Dr. Will E. Mason, on "The Disorientation of Monetary Theory."

Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. Frank Garofola, U. S. Steel Corporation, on "Resistance to Creep, Deformation, and Fracture in Metals and Alloys."

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Wednesday, January 10

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Dr. Charles L. Hosler, on "Removal of Radioactive Debris from the Atmosphere."

Thursday, January 11

Meeting of the faculty, College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Paul von R. Schleyer, Princeton University, on "Adamantane — Chemical Consequences of the Diamond Structure."

Friday, January 12

Artists Series program by Janos Starker, cellist, 8:30 p.m., Schwab Auditorium.

Fellowships

Applications are now being accepted for a Post Doctoral Research Associateship in Solar Energy Conversion with awards to be made about April 1962. A holder of a Fellowship Award will be employed at the Scientific Laboratory of the Directorate of Research Analysis, Air Force Office of Scientific Research, Holloman Air Force Base, New Mexico. The annual stipend will be \$8955. Tenure will begin after July 1, 1962 and will continue for one year. Renewal of the fellowship is possible.

This fellowship is recommended by the National Academy of Sciences and sponsored by the Office of Aerospace Research. Requests for application forms or for additional information should be addressed to the Fellowship Office, National Academy of Sciences - National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D.C. Application deadline, February 1, 1962.

There is a wide area of research to be accomplished in basic measurements and techniques before work with solar energy collectors is put on a quantitative basis in the high temperature region. Research to be conducted will be selected by the recipient of the fellowship from such areas as: radiative heat transfer; heat balance in the focal area of high temperature solar energy collectors; developing methods and instrumentation for collecting accurate temperature data, accurate measurement of thermal conductivity, emissivity, absorptivity and other properties of materials at high temperatures.

UCA Forum

The University Christian Association will conduct a faculty forum Saturday, Jan. 13, at 8 p.m. in the Helen Eakin Eisenhower Chapel lounge, with Dr. John Dillenberger as speaker.

Presently professor of theology at Drew Theological Seminary, Dr. Dillenberger has taught previously at Columbia and Harvard and is the author of "God Hidden and Revealed" and "Natural Science and Protestant Thought."

He will speak on "Modern Culture and the Problem of Theological Reinterpretation."

faculty BULLETIN

Vol. 49, No. 23

Jan. 5, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Revised schedules

The following deadlines for filing revised schedules for the Spring 1962 Term have been announced: seniors and graduate students, Monday, Jan. 15; juniors, Thursday, Jan. 18; Sophomores, Monday, Jan. 22; Freshmen, Thursday, Jan. 25.

Students who, for some reason, did not file a Spring Term Official Registration Form (No. 2 Card) when they registered for the Winter Term, may file such a form according to the schedule of deadlines above; however, the cards should *not* be marked "revised" but should be dated.

Bicycles

Faculty and staff members, as well as students, who ride bicycles on the campus will be affected by the new safety program to be instituted as weather and personnel availability permit.

The program will include the construction of some bicycle paths, designation of portions of existing roads and paths as bicycle lanes, inspection and registration of vehicles, and an educational program designed to make pedestrians, motorists, and cyclists aware of the problem and the proposed solution.

Poland

Edward Kmiecik, first secretary of the Polish Embassy, Washington, D. C., will speak on "Life in Contemporary Poland" Tuesday, Jan. 16, at 7:00 p.m. in McElwain Lounge. The talk is sponsored by the department of Slavic languages.

NEWS IN BRIEF

► **MAIL:** To speed delivery of first class mail which comes to the University over the weekend and which is incompletely or incorrectly addressed, the campus mailroom in Graduate Hall is now being opened at 6:30 a.m., with two clerks on hand to directorize the mail and prepare it for delivery that morning.

► **EXHIBIT:** An exhibit of Indonesian arts and crafts, including textiles, sculpture, masks, and books, is now on display in the lobby of the Pattee Library. The materials were loaned by Dr. James F. McDivitt, assistant professor of mineral economics, and his wife. The exhibit was arranged by Stuart H. Frost, instructor in art.

► **PEACE CORPS:** The next group of volunteers to undertake training at Penn State in the Peace Corps Program will be comprised of 32 men and 18 women, three of whom are Pennsylvanians. The training begins Jan. 24.

► **INSTITUTE:** The ninth annual Summer Institute for High School Teachers of Science and Mathematics will be held June 25 to Aug. 3, with 35 high school teachers in each of the fields of biological science, physical science, and mathematics in attendance. In charge of the three fields are Dr. Leon R. Kneebone, professor of botany and plant pathology; Dr. Kenneth V. Manning, associate professor of physics; and Dr. Thomas C. Benton, professor of mathematics, respectively.

► **LOAN FUND:** The Henry G. Barone Loan Fund, honoring the memory of Dr. Henry G. Barone, associate professor of mathematics who died June 22, has been set up by an initial contribution of \$1,000 from his widow. The fund is designed to aid able students in full-time undergraduate programs who are in need of financial assistance, with preference given to those in the field of mathematics.

► **REELECTED:** James B. Long, of Blue Bell, has been re-elected president of the Board of Trustees, a position he has held since 1958. He has been a member of the Board since 1943. All other officers as well as members of the Executive Committee were also re-elected.

► **PARTICIPANT:** N. J. Palladino, professor and head of the department of nuclear engineering, was a principal participant this week at the International Heat Transfer Conference in London, England, serving as a mem-

ber of the American Organizing Committee of the Conference and as co-chairman of a session on boiling and burnout. The late Professor George M. Dusenberry was the principal organizer of the first conference, which was held at Penn State in 1951.

► **ARTISTS:** Janos Starker, cellist, with James Avery as accompanist, will present the next Artists Series program this evening (Friday) at 8:30 p.m. in Schwab Auditorium. His program will consist of "Pieces en Concert" by Francois Couperin; Adagio and Allegro by Francois Francoeur; Sonata in C Major by Sergei Prokofiev; and Sonata for Unaccompanied Cello, Opus 8, by Zoltan Kodaly.

► **FORUM:** Dr. John Dillenberger, professor of theology, Drew Theological Seminar, will address a University Christian Association Faculty Forum at 8 p.m. in the Chapel lounge tomorrow (Saturday). He will speak on "Modern Culture and the Problem of Theological Reinterpretation."

► **CENTER STAGE:** Peter Shaffer's "Five Finger Exercise" will open at Center Stage Friday, Jan. 19, and continue each Friday and Saturday until Feb. 24. Robert D. Reifsneider, associate professor of theatre arts, directs the play.

(Continued on page two)

Social security

Beginning January 1, 1962, the social security tax rate was increased from 3% to 3½% on the first \$4,800 of earnings in a calendar year. This means that a University faculty and staff member participating in the social security program will now have a slightly higher social security tax deducted from his regular paycheck.

At the same time, members of the State Employees' Retirement System with social security coverage will contribute a slightly lower amount into their retirement funds.

For most faculty and staff members (those also in the State Employees' Retirement System), the additional cost will not exceed \$3.60 per year on \$4,800 of income.

For those not in the State Employees' Retirement System, the additional cost will not exceed \$6.00 per year on \$4,800 of income.

This increase in the social security tax has enabled the Federal governments to provide increased benefits in their program. The Social Security Amendments of 1961 provide the following changes:

1. men can apply for benefits at age 62 on a reduced scale;
2. the amount of service needed to receive benefits is lowered;
3. the benefits to aged widows and aged dependent widowers are increased;
4. the minimum old-age benefit is raised;
5. a person receiving social security benefits can earn more money while receiving benefits.

Questions about these changes or other provisions of the social security program can be answered by the local social security office located at 346 East College Avenue; telephone AD 7-2151.

Study abroad program set

TWO of Europe's outstanding universities will join with Penn State in a unique arrangement to give 70 junior and senior students an unusual academic and social experience under the Study Abroad Program of the College of the Liberal Arts during the Spring Term.



deLevie

"The Universities of Strasbourg, France, and Cologne, Germany, have made many concessions in their normal programs to make this experience possible," says Dr. Dagobert deLevie, director of the Study Abroad Program.

"In the first place, both universities are extremely busy now in all their programs and, moreover, have many foreign students. The advantage to them of having American students is not so great as it might be at other universities."

There are several other reasons the University was fortunate in obtaining the arrangements:

1. The courses to be taught are all *Penn State courses*, for which full credit will be given if the courses are passed.
2. They will be taught in English.
3. Penn State's examination and grading methods will be used.
4. The University's calendar — the Spring Term runs from Mar. 28 to June 8 — will be used, although it coincides in no way with that of the cooperating universities.

The basic purpose of the program, as developed by a committee of the College, is to enrich the University offerings in liberal studies by the addition of a program of study of European cultural, political, and economic problems. Students from all areas of the University are eligible to apply for the program, but they must have good academic standing, and have completed four semesters of the language of the country they will visit. From the applicants, selections are based also on maturity, stability, and other characteristics.

"Although the students will be conversant in the language," says Dr. deLevie, "we believe they will not be far enough advanced in the language of the special disciplines they will be studying to do the most effective work. That is the reason we have insisted on instruction in English. The purpose is not to advance in language but

rather in the liberal subjects which fit into our regular program and which are strong in the selected universities.

"But the students will have many contacts with the language and, moreover, they will have a language-literature course entirely in French or German."

The courses to be given at the University of Strasbourg are Sociology 499, Political Science 499, Art and Architectural History 413, and French 301, 302, 490, and 471. At Cologne, the art history course will be replaced by Theatre Arts 431 and the French courses by German 322.

At Strasbourg, the students will have the advantage of the medieval Gothic art at the Strasbourg Cathedral and the many art collections in the area. They will also have the unusual assistance of the "Council of Europe" which enables the students to (a) attend debates of the European Assemblies, being briefed by a Member of Parliament or a member of the Secretariat; (b) hear a series of lectures on the Council of Europe and other aspects of European cooperation; (c) make use of the Council of Europe Library; (d) hear lectures from other European and International organizations.

At Cologne, the internationally-known Institutue of Theatre Arts will contribute greatly to the experience, as will the many theatres in and near the city. Moreover, the city has much to offer of the past and of the present.

Dr. deLevie, while completing the agreements in December which had been started by Dean Ben Euwema earlier, initiated steps to have the students live with French and German families, to enlarge the educational experience, contribute further to international understanding, and add to the language training.

"We want to avoid the isolation of the students and hope that they will establish direct and friendly contact with local residents," he says.

The University of Cologne was founded in the 14th century. It has a distinguished faculty which attracts students from all parts of the world. The University of Strasbourg, one of the oldest in France, was founded in the 16th century and its faculty and

superior library are also internationally known.

Certainly not one of the less significant advantages in Penn State's program is the low cost involved. The student will pay a registration fee of \$35, regular tuition, room and board, and his own transportation, the cost of which going over will be about \$125, by chartered DC-7 plane from New York.

"It is also important to note that the students will experience no delay in graduation," says Dr. deLevie.

Accompanying the students will be a qualified Penn State faculty member having facility in the foreign language involved. He will act as the faculty advisor and participate in the instructional work. Dr. deLevie has already completed arrangements for the resident coordinators in the two countries who will assist the faculty advisor and assure the continuity of the program.

"The splendid cooperation of the Universities of Strasbourg and Cologne in these initial steps gives us great encouragement for the future of the program," Dr. deLevie says. "We hope soon to add a program in either Spain or a Latin American country."

"Moreover, we like to think that in time the same charter plane which takes our students abroad will return with foreign students to study here. It could be a very useful step in the direction of better international understanding."

News —

(Continued from page one)

➤ **HILLEL:** "The Dybbuk," a film of one of the most famous plays in the Yiddish Theatre, will open the new Hillel Cultural Film Series Sunday, Jan. 14 at 8 p.m. at Hillel Foundation, 224 Locust Lane. The story is based on a Kabbalistic theory that the soul of a deceased person may enter and join the soul of a living person. Other films in the series will include "Picasso" and "Albert Schweitzer."

➤ **GIFT:** Real estate valued at \$5,300 located in Fairfax County, Va., has been given to the University by L. R. Eakin, father of the late Mrs. Milton S. Eisenhower. Proceeds from the sale of the property will be added to the fund for the Helen Eakin Eisenhower Chapel.

➤ **MOVIES:** Four films by Charles Eames — titled House, Sofa Compact, India, and Brussels Fair — will be shown by the department of architecture Monday, Jan. 15, at 7:30 p.m. in Room 121 Sparks.

Personnel matters

Dr. John R. Rackley, dean of the College of Education since 1956, has been named vice-president for resident instruction, effective immediately, succeeding Lawrence E. Dennis, now associate director of the Peace Corps.



Rackley

A native Oklahoman, Dr. Rackley obtained both bachelor of arts and master of arts degrees in history from the University of Oklahoma and the doctor of philosophy degree was conferred by George Peabody College, Nashville, Tenn.

His teaching career included service in high schools in Oklahoma and at Teachers Colleges of Connecticut, where he was dean of the College from 1946 to 1949. He returned to the University of Oklahoma as dean of the College of Education in 1949 where he remained until taking leave in 1955 to serve 14 months as deputy commissioner and later acting commissioner of the U.S. Office of Education.

Dr. Rackley is currently serving as president of the American Association of Colleges for Teacher Education and is a member of the National Committee for Education in Family Finance.

• • •



VanderMeer

Dr. Abraham W. VanderMeer has been named to succeed Dr. Rackley as dean of the College of Education.

A member of the faculty of the College for the past 15 years, Dean VanderMeer taught in public schools in Washington after receiving bachelor of arts degrees from Eastern Washington College of Education and the University of Washington. He was granted the master of arts degree in 1941 and doctor of philosophy degree in 1943 by the University of Chicago.

After service in the U.S. Navy, Dean VanderMeer came to Penn State in 1946 as assistant professor of education. He was named associate professor in 1948 and professor in 1952.

His special field is that of curriculum and materials of instruction. With grants from the U.S. Office of Educa-

tion, he has carried on research to seek production techniques to improve pictures and film strips in teaching. He has also conducted research on programmed instruction using pictorial and graphic stimulus materials in teaching machines.

• • •

Dr. Russell E. Larson, head of the department of horticulture, has been named director of agricultural and home economics extension services and associate dean of the College of Agriculture.

A member of the faculty since 1944, when he was named assistant professor of plant breeding, Dr. Larson succeeded the late Dr. Warren B. Maek as head of the department of horticulture in 1952 and last March was named chairman of the Division of Plant Sciences and Industry.

Before coming to Penn State, he was assistant professor of agronomy at the University of Rhode Island and research assistant at the University of Minnesota. He received all three degrees from Minnesota and his alma mater honored him with the Outstanding Achievement Award last year.

Dr. Larson's research has been primarily in the fields of plant breeding, genetics, and the culture and physiology of vegetable species. Since 1958 he has served as a consultant to the Office of Experiment Station, U.S.D.A. In 1960 he served while on leave as scientific aide to the Mexican agricultural program of the Rockefeller Foundation.

• • •



Campbell

Stanley H. Campbell has been named vice-president for business to succeed Albert E. Diem, whose resignation is effective Jan. 31.

Mr. Campbell has served on the administrative staff since 1932, when he joined the Engineering Extension staff. In 1934 he became district representative of General Extension Services, serving two years in Harrisburg and two years in Pittsburgh. In 1942 he was named supervisor of the District Representatives Division and in 1948 director of the Division of Community Colleges.

He became assistant to the director of Continuing Education in 1953.

In 1959, Mr. Campbell was named to Mr. Diem's staff as director of special projects and last March was named director of housing and food services.

He is a graduate of Penn State in business administration in 1932.

• • •

Dr. Paul M. Althouse has been named director of general education, effective Feb. 1. He has served for the past year as acting director of the program.

Prior to his appointment as acting director, Dr. Althouse had served as assistant director of resident instruction in the College of Agriculture.

A Penn State graduate in agricultural and biological chemistry, he has also received master's and doctor's degrees from the University. He joined the faculty in 1943 and in 1951 was named professor.

• • •

Dr. Dagobert de Levie, associate professor of German, has been named assistant to the dean of the College of the Liberal Arts, with responsibility for the Study Abroad Program.

Dr. deLevie joined the faculty in 1947 after having taught modern languages at the Associated Colleges of Upper New York. Born in Oldenburg, Germany, he studied at the University of Kiel, University of Cologne, Columbia University, and Harvard, and received his doctor of philosophy at the University of Basel, in Switzerland.

• • •

Dr. Richard H. Jahns, chairman of the Division of Earth Sciences and professor of geology, has been named associate dean of the College of Mineral Industries, effective Feb. 1. He will continue with these positions also.

Dr. Jahns came to Penn State in 1960 from California Institute of Technology, which he had served from 1946. He had also served with the U.S. Geological Survey from 1937. He received both bachelor's and doctor's degrees from Cal Tech and master's from Northwestern University.

Leaves

The following leaves of absence have been announced:

Jaroslav D. Stachiw, research assistant in the Ordnance Research Laboratory, to work for a doctorate degree at Penn State.

Dr. Werner F. Striedieck, associate professor of German, from Jan. 1 to June 8, to go to Germany to work on a revision of his textbook on scientific German.

(Continued on page four)

Personnel —

(Continued from page three)

Dr. Robert McCammon, assistant professor of physics, and his wife, **Dr. Mary Lister McCammon**, associate professor of mathematics, for the calendar year, to engage in research in Australia. Dr. Robert as a fellow in the Division of Physics of the Commonwealth Scientific and Industrial Research Organization in Chippendale, New South Wales; Dr. Mary doing research in mathematics at the University of Sydney.

Harry M. Bobonich, assistant professor of chemistry at the Pottsville Campus, a year's leave to continue graduate work at Syracuse University toward a doctorate in chemistry.

Dr. George P. Barron, Jr., professor of animal nutrition, a year's leave until Nov. 30, to serve as appraiser of nutrition research project applications at the National Institutes of Health.

William G. Noyes, instructor in music education, a military leave to serve with the 112th Aircraft Control and Warning Flight.

Dr. Robert M. Peckrass, associate professor of journalism, from March 26 to June 8 to serve as visiting faculty member at Leland Stanford University.

Benjamin A. Whisler, head of the department of civil engineering, a three-month leave to accept an assignment as consultant to the government of Zanzibar.

Dr. Max D. Richards, associate professor of management, a leave from July 15 to Sept. 15 to accept a fellowship from the Ford Foundation to participate in its summer study program on "Application of Mathematics to Business," at the University of Michigan.

CALENDAR

Friday, Jan. 12

Artists Series program by Janos Starker, cellist, 8:30 p.m., Schwab Auditorium.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. I. A. Breger, U.S. Dept. of Interior, Geological Survey, on "The Effects of Nuclear Radiation on Coal."

Saturday, Jan. 13

Varsity basketball, vs. Navy, 8 p.m. Rec Hall.

Sunday, Jan. 14

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. P. Barrett Rudd.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m. Schwab Auditorium. Dr. John Dillenberger, Drew Theological Seminary, on "God's Omnipotent Risk."

Hillel Cultural Film Series, 8 p.m., "The Dybbuk" at Hillel Foundation.

Monday, Jan. 15

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." John R. Juba, chief of police, State College, on "A Night with the State College Policemen."

Film by Charles Eames, 7:30 p.m., Room 121 Sparks, sponsored by the department of architecture.

Tuesday, Jan. 16

Meeting of Central Pennsylvania Section, American Chemical Society, 8 p.m., Room 111 Boucke. Dr. Robert M. Garrels, department of geological sciences, Harvard University, on "Chemical Equilibria in Natural Aqueous Systems."

Annual meeting, University Park Federal Credit Union, 8 p.m., Room 214 Boucke. Business meeting and elections.

Varsity basketball, vs Colgate, 8:30 p.m., Rec Hall.

Talk by Edward Kmiecik, first secretary of the Polish Embassy, Washington, D. C., on "Life in Contemporary Poland," sponsored by the department of Slavic languages, 7 p.m., McElwain lounge.

Wednesday, Jan. 17

Psychology Colloquium, 8 p.m., Room 112 Buckhout. Dr. N. S. Sutherland, Oxford University, on "Switching-in Sensory Analysing Mechanisms."

Phi Lambda Upsilon, honorary chemical society, meeting 7:30 p.m., Room 214 Boucke. Dr. David Davis, professor of zoology, on "Human Populations — Speculations on the Future."

Meteorology Seminar, 3:55 p.m., 308 Willard. Dr. Sidney Bowhill, associate professor of electrical engineering, on "The Atmosphere above 300 Kilometers."

Thursday, Jan. 18

Artists Series program by "I Musici" 8:30 p.m., Schwab Auditorium.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Ernest Grunwald, Bell Telephone Laboratories, on "Rates and Mechanism of Some Instantaneous Proton Transfer Reactions."

Friday, Jan. 19

College of Agriculture faculty meeting, 3:55 p.m., Room 100 Weaver.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. P. H. Given, fuel technology, on "The Chemistry of Coal Macerals."

Opening night of Center Stage show, "Five Finger Exercise," by Peter Shaffer, 8 p.m.

Television Listings

(For week of Jan. 15, WFBG-TV, Altoona)

FOLIO 15

(9-9:15 a.m.)

Monday — James F. McDivitt, assistant professor of mineral economics, on "Our Underground Resources: How Much Remains?"

Tuesday — Wilmer E. Wise, assistant to the dean of men, on "The Greeks on Campus: A Look at College Fraternities."

Wednesday — Henry W. Sams, professor of English, on "Deficiencies in English."

Thursday — Bruce M. Siegenthaler, associate professor of clinical speech, on "The Child in the Speech Clinic: How Does He Benefit?"

Friday — Robert T. Oliver, head of the department of speech, on "Revolutions New and Old."

faculty BULLETIN

Vol. 49, No. 24

Jan. 12, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Landmarks

The old Botany Building, now known as Psychology Laboratory, is one of a number of landmarks which will be preserved for their historical significance, by action of the Board of Trustees at its recent meeting.

Acting on a recommendation of the University Development Committee, the Board decided that landmarks should include land areas, buildings, and other physical objects. Included among the recommended landmarks are the area in front of Old Main, the Mall, three memorial gates, stone obelisk south of the Armory, and the grave of President George W. Ather-ton.

No building will be preserved beyond a time when it is useful in some way in carrying out the program of the University, the Committee recommended. The exception is Old Main, which, it is recommended, should be retained in its existing or a modified form as a symbol.

Honored

Dr. Lyman E. Jackson, dean of the College of Agriculture, was honored by the New Holland Machine Co. for "Distinguished Service to Pennsylvania Agriculture" during Farm Show Week in Harrisburg.

The annual award, fourth to be given by the company, was in recognition of Dean Jackson's years of service to Pennsylvania agriculture. Other recipients of the award in the past were Carroll P. Streeter, editor of the Farm Journal; Dr. Howard B. Sprague, head of the department of agronomy; and Donald Cresswell, director of information, Pennsylvania Department of Agriculture.

NEWS IN BRIEF

► **TO EUROPE:** A few seats are available on the plane which will take 70 students to Europe in the Study Abroad Program and members of the faculty and staff, or of their families, are eligible to take advantage of the low cost transportation. The plane, a Pan-Am DC-7C, will leave Idlewild Airport March 26 and arrive in Strasbourg, France, and Cologne, Germany, the next day. Contact the Study Abroad Program office, Room 4 Sparks, UN 5-5334.

► **DEDICATION:** The "Frederick W. Owens Seminar Room" in McAllister Building was dedicated yesterday to honor the memory of the late professor and head of the department of mathematics who served the University for 34 years prior to his retirement in 1954. Among those participating in the program, which was attended by friends and former associates of the late Dr. Owens, was his widow, Dr. Helen B. Owens, who also served for many years on the mathematics faculty.

► **RADIO:** The University's newest radio series, "Passport," is now being carried on two out-of-State stations as well as many in Pennsylvania. The program, which reports the experiences and observations of faculty members who have traveled overseas in recent years, is being carried by Baltimore and Youngstown, Ohio, stations.

► **ADVISOR:** Students trying to organize a "Young Americans For Freedom" chapter at the University are seeking a faculty member as advisor. The organization, which has chapters at Yale, Wisconsin, Penn, and Chicago, among other colleges and universities, is conservative in nature. Faculty members interested in helping may contact Frank Hurley, Room 158 Thompson, Waring Box 646, or phone UN 5-4897.

► **LAW TEST:** The next Law School Admission Test will be given at the University Feb. 10. Students interested in seeking law school admission who wish to take this test should write immediately for an application to Educational Testing Service, Law School Division, Princeton, N. J. The test will be given all day in Room 109 Armsby.

► **MAPLE ROOM:** Food service at the Maple Room cafeteria in the Home Economics Building was resumed this week. For the Winter Term, students will prepare luncheon meals only, Monday through Friday.

(Continued on page four)

Construction

The Board of Trustees has approved construction of a one-million gallon water tank to be located east of the dairy cattle center. The tank will stand 175 feet above ground and will be 74 feet in diameter.

The water tank is part of a General State Authority project costing \$1,365,000 which will also include: installation of two new boilers in the Power Plant, extension of heat lines to Wagner Building, new pumps for University wells, and construction of water lines.

Final plans for the Arts and Humanities Building to be constructed north of the Helen Eakin Eisenhower Chapel were also approved by the Board. It is expected that the request for bids will be made by the General State Authority in the spring.

The Board also authorized the preparation of plans, obtaining of bids, and awarding of contracts for construction of a small addition to the mastitis research barn, which is located north of the Animal Diseases Research Center.

Artists Series

Sean O'Casey's "Pictures in the Hallway" will be presented by The Cleveland Playhouse on the Artists Series Saturday, Jan. 27, at Schwab Auditorium, in two performances, at 3 p.m. and at 8:30 p.m.

Tickets for these shows will be sold to the public Jan. 24-26 at the HUB desk.

The cast of eight players will assume the roles of 19 "Dubliners" in the tragicomedy which tells about O'Casey's boyhood in Dublin slums. The theme of the play is man's hopes, fears, joys, sorrows, and his belief in the future.

This is the second year of touring for a Cleveland Playhouse company, but the Playhouse, which operates three theatres in the city, has been in operation for 45 years.

Fellowships

The U. S. Office of Education has announced that 1,500 National Defense Graduate Fellowships will be awarded for 1962-63. Faculty members are urged by the Graduate School office to call this program to the attention of outstanding seniors and to graduate students who have not yet completed more than a half year of their program leading to the degree.

These fellowships, normally a three-year award, provide a stipend of \$2,000 the first year, \$2,200 for the sec-

(Continued on page three)

Senate Minutes

MEETING OF JANUARY 9, 1962

The University Senate met at 3:55 p.m. on Tuesday, January 9, 1962, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the December 5, 1961 meeting were approved as printed in the Faculty Bulletin for December 15, 1961. One hundred seventy-one senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (W. C. Cochrane), J. W. Bratzler (T. V. Hershberger), E. G. Buss (E. B. Hale), A. L. Bortree (R. E. Swope), Ben Euwema (H. J. O'Brien), P. W. Fletcher (S. D. Schemnitz), K. W. Hylbert (James Kelz), J. C. Johnson (V. M. Albers), E. L. Keller (T. S. Goas), Ossian MacKenzie (R. L. Clewett), A. J. G. Maw (E. B. Hale), R. C. Miller (E. W. Hartsook), N. J. Palladino (A. H. Foderaro), H. B. Palmer (R. H. Essenhigh), E. R. Queer (W. L. Muschlitz), H. J. Reed (J. H. Hoke), C. G. Reen (W. N. Underwood), J. J. Schrader (T. M. Rabun), T. S. Spicer (H. L. Lovell), and J. B. Washko (L. T. Kardos).

New Senators

A letter was read from the College of Education stating that Leon Gorlow has been granted a leave of absence for the Winter, Spring, and Summer Terms of 1962 and that B. E. Voss would serve as his replacement.

A letter was read from B. A. Whisler, Head of the Department of Civil Engineering, stating that J. B. Nesbitt would serve as his replacement during January, February, and March, 1962, and that C. J. Smith would act as Department Head. Mr. Smith is already an elected senator.

The secretary read a letter from Martha A. Adams, Secretary of the Senate Committee on Faculty Affairs, stating that A. H. Reede had been selected by the elected membership of the Senate on December 5, 1961 to replace L. A. Fouraker on the standing joint committee on tenure of the faculty and administration.

Reports of Standing Committees

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A" as an informational report and stated that no action was necessary by the Senate. Mr. Stoner asked that the last word on line seven of the first paragraph be changed from "respects" to "aspects." The report is as follows:

At the August, 1961, meeting of the Senate, the President referred to the Senate Committee on Admissions a communication received from the Chairman of the Behrend Workshop Agenda Committee recommending that a change in admission policy be instituted, on an experimental basis, to permit admission of high school students to baccalaureate programs at several Commonwealth Campuses who were not qualified under existing University admission standards. This Committee has considered this recommendation, in conjunction with other aspects of admissions policy, and at a meeting on December 11, 1961, took the following actions:

1. The Committee on Admissions does not approve the establishment of differential admission standards for baccalaureate programs on the Commonwealth Campuses.
2. The Committee disapproves the recom-

mendation of the Behrend Campus Workshop of Commonwealth Campus Directors.

3. The Committee recognizes that facilities at Commonwealth Campuses are available, and that there are students who could profit from college work. Many of these students could be admitted to associate degree programs, if such programs were available in appropriate fields both mechanical and technical. Therefore, the Committee recommends that urgent attention be given to the establishment of such associate degree programs.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." This report contained several items. He called special attention to the four criteria in Item I A for new courses which may be approved during the moratorium. They are as follows: 1. educationally sound; 2. immediate needs of the university; 3. certified as meeting the budget requirements for new courses; and 4. accompanied by proposals to drop a course or courses.

He also called attention to Item III which listed two courses not recommended for approval by the Committee. One of these courses, #135 (I E 339), is entitled "Elementary Data Processing." He recommended the appointment of an All-University Committee on courses in the area of data processing as an advisory committee to the Senate Committee on Courses of Study. He then moved approval of Items I A, IB, II A, II B, and IV of the report. The motion was seconded and passed. The complete report is on file in the office of the secretary. President Walker stated that he would appoint a new committee composed of people who are interested in teaching data processing methods.

Joseph Marin, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented an informal report entitled "University Service Facilities for Research" which had been distributed with the agenda as Appendix "C." This report which had been prepared by H. W. Dunne was received by the President and is as follows:

University Service Facilities for Research

Research workers throughout the University frequently are in need of custom made parts of equipment, specific instruments, or machine shop services which are not readily available from commercial sources. Some university campuses maintain a central machine shop to supply these demands for service. Since The Pennsylvania State University has no central machine shop, the Research Policy Committee of the University Senate surveyed existing college and departmental shop facilities to determine if the existing units were sufficiently well equipped and manned and if they were willing at both the shop and administrative levels to extend service to those colleges and departments not so equipped.

The survey summary as enclosed appears to indicate that existing facilities are adequate to meet departmental demands arising from any section of the University.

In addition to the shop units described in this report, it is suggested that the Physical Plant be contacted for such facilities as wood-working, sheet metal working, glazing and painting. The Farm Shops also may be contacted for such services as welding and blacksmithing.

It is further suggested that this information be made available to all deans, assistant deans in charge of research, and department heads for distribution at their discretion.

Prepared for the University Senate Research Policy Committee by H. W. Dunne, Department of Veterinary Science

College of Chemistry and Physics Service Facilities

Machine Shop — fully equipped, highly skilled mechanics, 4.25 per hour, contact Mr. Sauer, UN 5-4142.

Glass Shop — fully equipped, professional glassblowers, 5.00 per hour, contact Mr. Murphy, UN 5-7051.

Chemical Stockroom — wide range of organic and inorganic chemicals, variety of apparatus, prices on request, contact Mr. Randolph Weaver, UN 5-7629.

Cryogenic Laboratory — Gaseous hydrogen, oxygen and nitrogen, liquid air, hydrogen, nitrogen and helium, prices on request, Contact Dr. Aston or Dr. Fritz, UN 5-4001.

College of Engineering and Architecture Service Facilities

Machine Shop — fully equipped, highly skilled mechanics, 4.25 per hour, Contact Mr. William Glass, UN 5-4963.

Stockroom — special metals, i.e., bronze, lead, copper, special materials, i.e., rods, wire, tubing, sheet metal, plastic, contact Mr. William Glass, UN 5-4963.

Ordinance Research Laboratory — occasional service, depends upon work load, contact Mr. R. F. Marboe, UN 5-7901.

Electronic Services — charges on a time-and-materials basis, electronic and electrical construction work, assistance in designing and constructing experimental equipment, also a variety of instruments available for loan — charges limited to cost of repair and recalibration after use, contact Mr. William Glass, UN 5-4963.

College of Mineral Industries Service Facilities

Machine Shop — fully equipped, highly skilled mechanics, 4.25 per hour, contact Mr. Robert Rodgers, UN 5-4132.

Glass Shop — equipped, skilled glassblower, rate to be established, contact Mr. Robert Rodgers, UN 5-4132.

Stockroom — wide range of hardware and glassware, not available from local merchants. Also gaseous hydrogen, oxygen, nitrogen and carbon dioxide, some chemicals, contact Mr. Robert Rodgers, UN 5-4132.

Special Services of Mineral Constitution Laboratories — x-ray diffraction and fluorescence analysis, electron microscopy and diffraction, spectroscopy and spectrophotometry, silicate and carbonate rock analysis, isodynamic separator, contact Dr. Joseph Comer, UN 5-7372.

(Continued Next Week)

Center Stage

Peter Shaffer's "Five Finger Exercise" will be presented by Penn State Players at Center Stage tonight and Saturday, and also for the next five weekends, concluding its run Feb. 24.

Robert Reifsneider, associate professor of theatre arts, directs the drama which tells the story of an English family and the effect a German tutor has on the individuals in the family. The play had a long and successful run in the West End of London and on Broadway.

Shaffer is a new English dramatist and Five Finger Exercise is his first play produced in a theatre.

Grants-in-aid help staff, dependents

A total of 720 staff members and their dependents took advantage of the University's Grant-in-Aid program during the Fall Term, obtaining financial help adding up to \$61,096 for the ten-week period.

A report by the Controller's office shows that 373 faculty and staff members received grants-in-aid for study. Of these 230 were on the academic staff and 143 in administrative, professional, clerical, technical-service, supervisory, or semiprofessional positions. The total value of the grants was \$21,001.

Of the 347 dependents of faculty and staff members, 223 were wives, sons, or daughters of faculty members.

The University's Grant-in-Aid Program provides that the full-time staff member or his dependent receives, upon request, a "scholarship" worth 75 per cent of tuition. Many faculty members or employees in other classifications take advantage of the program to work toward a degree or obtain courses in their areas of specialization.

Virtually every segment of the University — academic and non-academic — is represented in the tabulation. The College of Engineering and Architecture is the largest with 178 staff members and dependents taking one or more courses. The table below lists the numbers in each of the leading areas:

College Division	Faculty or Staff	Dependents	Total
Eng.-Arch.	115	63	178
Agriculture	36	71	107
Liberal Arts	20	44	64
Gen. Admin.	40	22	62
Min. Ind.	30	19	49
Chem.-Phys.	25	19	44
Physical Ed.	9	13	22
Education	13	8	21
Bus. Admin.	4	8	12
Home Econ.	5	4	9
Others*	76	76	152

* Includes Military Science (26), Food Services and Housing (24), Commonwealth Campuses (23), Physical Plant (16), Continuing Education (12), DARS (7), Library (5), Counseling (4), Health Center (4), Personnel Services (3), Nittany Lion Inn (3), and Others (25).

By classification of services, the breakdown is as follows:

	Faculty or Staff	Dependents	Total
Academic	230	223	453
Clerical	50	24	74
Administrative	33	21	54
Tech-Service	6	36	42
Semi-Prof.	33	8	41
Professional	15	9	24
Supervisory	2	13	15
Executive	0	6	6
Non-class.	4	7	11

The report also pointed out that grants-in-aid to graduate assistants, graduate fellows, and graduate scholars totalled 1,157, with a value of \$174,324. The University's assistance for all classifications therefore totalled more than \$235,000 for the term.

Fellowships —

(Continued from page one)

ond, and \$2,400 for the third, plus \$400 for each dependent, and are intended to encourage students to prepare for college and university teaching and to strengthen and extend facilities for graduate training of college and university teachers.

Penn State has been awarded seven of these fellowships for the 1962 Fall Term, two in biophysics, two in philosophy, and three in political science and government.

Students may apply at any one of the institutions offering fellowships in their special fields but should begin the necessary steps now, since applications in most colleges must be completed by Feb. 15-20.

Recital

Dr. Leonard Raver, Chapel organist, will present a recital Sunday, Jan. 21, at 4 p.m. in Schwab Auditorium, with a brass ensemble of five students performing a number of works with Dr. Raver.

Included in the program will be a work by contemporary New York composer, Louie White, who has written "Introduction and Chorale" for Dr. Raver and dedicated it to him. Other composers represented on the program are Gabrieli, Bach, and Marcel Dupre.

Students Pay Half of Resident Education Costs

A student at Penn State is now paying about half (48.9%) of the cost of his education, according to figures in the accompanying diagram prepared by the Accounting Division and released by President Walker.

The Commonwealth of Pennsylvania is paying a little more than one-third (36.7%). The balance comes from the federal government and other sources.

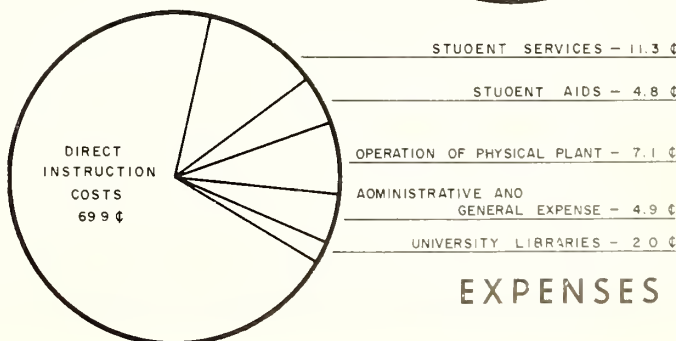
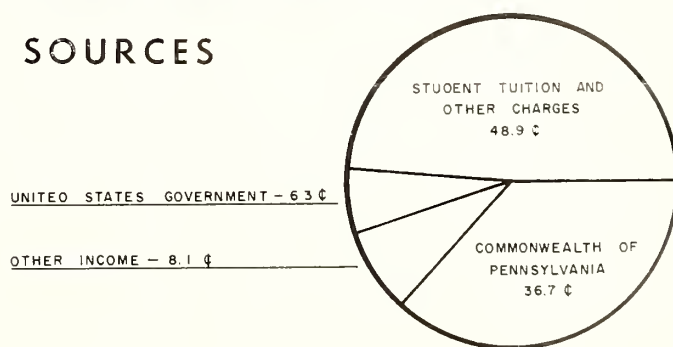
The percentage of state aid to the student has been dropping in recent years and that paid by himself has been rising.

The student's tuition dollar is spent largely for the cost of teaching him in the classroom and laboratory — 69.9%. The rest goes for student services (offices of the dean of men, dean of women, chaplain, placement service, admissions and registrar, and the division of counseling) — 11.3%; student financial aids — 4.8%; physical plant — 7.1%; administrative and general expense such as personnel services, campus patrol, and mail service — 4.9%; and library — 2.0%.

This breakdown is only for the resident education program and does not include research, continuing education, agricultural and home economics extension and the like.

These charts were designed primarily to help students understand how their education is paid for and how the money is used.

SOURCES



News —

(Continued from page one)

Service will be provided from 11:45 a.m. to 12:45 p.m.

► **BROTHERHOOD:** The annual Brotherhood Banquet, sponsored by the Committee on Interreligious Affairs, will be held Monday, Feb. 12, with Dr. Benjamin Mays, president of Morehouse College, as speaker. Tickets are priced at \$2.50, sale of which will be announced later.

► **UCA FORUM:** A University Christian Association dinner-forum will have as speakers Dr. and Mrs. Edgar Miller, medical missionaries for ten years in Nepal. The forum will be held Saturday, Jan. 27, at 6 p.m. in HUB dining room "A", and reservations should be made by calling the UCA office, UN 5-7627.

Personnel matters

Dr. Teresa Cohen, who retired Dec. 31 after serving on the faculty 41 years, has been named professor emerita of mathematics.

Dr. E. I. Fjeld, who has taught and administered at City College of New York, Central Michigan University, and Southern Illinois University, will be visiting professor of accounting during the Spring Term.

Dr. Arthur O. Lewis, Jr., professor of English, will do research on Utopian fiction during a leave of absence from March 16 to June 15.

Sanna D. Black, professor of home management extension for over 14 years, retired Dec. 31, with emerita rank. Helen E. Bell, associate professor of home management extension, has been appointed successor to Miss Black.

CALENDAR

Friday, Jan. 19

College of Agriculture faculty meeting, 3:55 p.m., Room 100 Weaver.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. P. H. Given, fuel technology, on "The Chemistry of Coal Macerals."

Opening night of Center Stage show, "Five Finger Exercise," by Peter Shaffer, 8 p.m.

Saturday, Jan. 20

Center Stage production of "Five Finger Exercise," 8 p.m.

Gymnastics, vs. Springfield College, 3 p.m.; wrestling, vs. Cornell University, 8:30 p.m.

Sunday, Jan. 21

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Donald McIlvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gordon Harland, professor of church history, Drew Theological Seminary, on "The Pilgrim People of God."

Organ Recital, 4 p.m., Schwab Auditorium, by Dr. Leonard Raver, Chapel organist, with brass ensemble.

Hillel Cultural Film Series, 8 p.m., Hillel Foundation. "Picasso," autobiographical color documentary.

Monday, Jan. 22

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. C. R. Carpenter, director of the Division of Academic Research and Services, on "Teaching Machines and Programming Learning."

Physics Colloquium, 4:15 p.m., Room 119 Osmond. Dr. Joseph Jaffe, Weizmann Institute of Science, Israel, on "Molecular Interaction in Gases."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. G. Sharma, on "Mechanical Properties and the Design of Solid Propellant Motors."

Tuesday, Jan. 23

College of Home Economics faculty meeting, 3:55 p.m., Room 209 Home Economics South.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Kenneth Kurihara, Rutgers University, on "Mathematical Programming for Economics Growth."

Wednesday, Jan. 24

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Edward Welser, graduate student, on "History of Meteorology, 1920-40."

Thursday, Jan. 25

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Edward C. Taylor, Princeton, on "New Heterocyclic Syntheses with Nitriles."

International Film Series, HUB Assembly Room, 3, 7, and 9 p.m. "The Bicycle Thief," (Italian) and selected short subjects. Tickets at HUB desk Monday.

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. F. Jerabek, on "Factors Influencing Backfilling Operations in Mines."

Friday, Jan. 26

College of Agriculture Faculty Seminar, 3:55 p.m., Room 112 Buckhout. C. W. Pierce and P. G. Helmberger, on "Programs for Pennsylvania Farm Committees."

Center Stage production of "Five Finger Exercise," 8 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. J. A. Winchester, department of geochemistry, Massachusetts Institute of Technology, on "Rare Earth Geochemistry."

Television Listings

(for week of Jan. 22, WFBC-TV, Altoona)

FOLIO 15

9-9:15 a.m.

Monday — Roger B. Saylor, professor of business statistics, "Some Towns Will Die."

Tuesday — Wolfgang E. Meyer, professor of mechanical engineering, "Research for Safety: Tires and Roads."

Wednesday — Rodney T. Houlihan, assistant professor of zoology, "Your Behavior: Cause or Effect of your Physiology."

Thursday — Donald Kepler, instructor of physical education, "Methods of Survival in Combat."

Friday — Robert K. Murray, professor of history, "Red Scare."

faculty BULLETIN

Vol. 49, No. 25

Jan. 19, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Statement—

The President's Office today issued the following statement concerning the Easter holiday period:

A number of students have inquired concerning the possibility of holidays during the religious holy days occurring between April 19 and 22, 1962. During this period, the members of the Jewish faith celebrate Passover on April 19 and 20; members of the Christian faith celebrate Good Friday on April 20 and Easter on April 22.

The present calendar policy establishes a ten-week term without holidays except on Thanksgiving Day and the Fourth of July. This policy is based partly on the experience under the semester plan with the period between fall registration and Thanksgiving which was about ten weeks in length. This was a highly effective work period during which holidays were not required.

The Chaplain and Coordinator of Religious Activities is asking the religious leaders of the community to make a special effort to provide religious services on April 19 and 20 for the Jewish students and on April 20 and 22 for the Christian students. It is anticipated that arrangements will be made which will make it possible for all students to attend the appropriate services without seriously interfering with their class attendance. The usual class attendance policy will be in effect during this period.

Dr. Robert G. Bernreuter, special assistant to the President for student affairs, will release a schedule of services well in advance and in the meantime all inquiries are to be directed to his attention.

Library makes strides with increases

WITH a budget three times as large as that of ten years ago and special grants of \$100,000 each of the last two years, the University Library has made strides in solving many of the problems with which it has been beset for a long time.



McComb

"No library ever reaches the goal of complete service to its patrons," says Ralph W. McComb, librarian. "The Library of Congress, with over nine million volumes, must occasionally go elsewhere, even to us, to meet the requests it gets.

"In common with most libraries, we have the problem of making our dollars stretch to do the most good, but while our budget increases, so do the costs of materials and services. For example, since 1953 the prices of all types of books have increased by 34 per cent and of science books by 39 per cent. Periodicals have been inflated by 20 per cent and in individual cases 100 per cent or more.

Demands increase

"In the same period our total enrollment increased by 80.3 per cent and graduate enrollment by 90.3 per cent. Obviously the demands on us have increased sharply, and I might add that individually the students seem to be increasingly conscious of the Library's usefulness and are taking advantage of it.

"Withal, we feel that we are in much better position to serve both students and faculty than we have ever been, not only for everyday needs but for special requests as well."

While Penn State has been improving its library program, McComb explains further, so have other colleges and universities, so that the University's relative position in the college library field has changed less than might be indicated by the percentage budget increase.

"For example," McComb says, "if we had had the budget in 1955-56 that we do today only five colleges or universities — California, Harvard, Yale, Illinois, and Minnesota — would have exceeded us. Today we are about 37th, because others have advanced while we have."

From national summaries of the U. S. Dept. of Health, Education, and Welfare, the Pattee Library (in 1959-60, the last year figures are available) was in the upper quarter of college and university libraries in all but two

categories: total volumes, and per cent of total budget spent on the library.

"We are not fortunate enough to be affiliated with such facilities as the Hoover Library at Stanford," McComb points out. "On the other hand, since we have neither medical nor law schools the requirements of our library are not as large and complex as those of many other public and private universities."

The special grants by President Walker the past two years have been used, by decision of the Library Committee, to strengthen certain areas to the level of the materials in the science and technological fields. In the Liberal Arts, particular attention has been paid to mathematics and philosophy but substantial gains have been made in other areas, such as history and literature. Additional help has been given also to the Commonwealth Campus libraries.

"The Library Committee asked departments to make their needs known, being as basic and long-range in the planning as possible, and wherever we could meet these needs, the money was provided," McComb says. "The requests, as always, exceeded the means to fulfill them, but we have made considerable progress.

The progress in service has been especially hard because trained librarians are difficult to find and the turnover is high. Six years ago the permanent staff totalled 72 and it is now 108, including the Commonwealth Campus personnel. Every year about 10 per cent of the staff must be replaced, sometimes by relatively untrained people.

Microfilming

Pattee Library has drastically expanded its use of microfilming and other reproducing techniques to solve the problem of spiraling costs. Interlibrary loans have also been emphasized, particularly to make available materials in specialized fields.

"Certain books, periodicals, or manuscript materials which are unique," McComb explains, "are thus available to us, although we could never hope to have the original. Research scholars are often handicapped by having to work through secondary sources, but with reproduction of original materials many of our problems can be solved. The usefulness of the Library

(Continued on page two)

Senate Minutes

MEETING OF JANUARY 9, 1962

(Continued from Last Week)

R. H. Waters, Vice Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "D" and moved adoption of the changes in Rules E-4, M-4b, and T-3 of the Senate Policies and Rules for Undergraduate Students, 1961-1962. The motion was seconded and passed. The changed rules are as follows:

E-4. *A student enrolled for courses on the University Park Campus or at one of the Commonwealth Campuses or Centers, may, with the permission of his dean or director, respectively, register for not more than 4 credits of correspondence and continuing education courses, in any combination, in any one term provided his total load including correspondence and continuing education does not exceed the load permitted him as a regular student in his curriculum.*

M-4b. *When a student officially drops a course after the first ten calendar days of a term a grade of W shall be reported.*

T-3. *A student admitted with advanced standing and classified in the fourth, fifth or sixth terms must take two credits of physical education, except that a total of not more than four credits of physical education shall be required. If he has not completed two credits of physical education when he transfers, he need not offer substitute credits for the first two terms of physical education.*

L. H. Lattman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "E" proposing changes in the W, Y, and Z Rules of the Senate Policies and Rules for Undergraduate Students, 1961-1962, and a proposed new W-15 Rule which had been distributed at the meeting. He stated that the purpose in the proposed W, Y, and Z Rules was to limit these rules to policy matters. He called attention to the newly prepared publication entitled "Guide to University Regulations Concerning Student Affairs, Conduct, and Discipline" which presents in nonlegal terms the administrative implementation of the proposed W, Y, and Z Rules as they pertain to the University Park Campus. The proposed W-15 Rule would make the new publication an integral part of the Senate procedure for regulating student activities. He moved that the Senate accept and adopt the rules as distributed. The motion was seconded. F. J. Simes moved that the second paragraph of Rule Z-1 be substituted for the second paragraph of the proposed Y-11, as follows:

No petitioning organization with restrictive membership clauses regarding race, religion, or creed shall be granted a charter provided that special consideration will be given to the merits of bona fide religious groups not founded for the purpose of religious discrimination.

The motion was seconded. After discussion by Messrs. Monroe Newman, F. J. Simes, C. L. Hosler, E. A. Walker, and L. H. Lattman, the motion on the amendment was passed.

Mr. Newman moved that the proposed Y-11 Rule be amended by adding the following:

After June 30, 1965, any social organization which has restrictive clauses still unre-moved shall be required to become inactive until the restrictive qualifications for membership are eliminated.

The motion was seconded. After discussion by R. W. Brewster, W. G. Mather, Dorothy Lipp, Monroe Newman, and J. J. Kauffman, the motion on the amendment was passed.

The motion to change the W and Z Rules as presented and the Y Rules as amended was passed. In answer to a question by the Chairman, L. H. Lattman, President Walker stated that the implementation of the Y-11 Rule will be an administrative responsibility. The changed rules are as follows:

W - Rules — Conduct of Students

W-11. The University regards all acts of unethical, immoral, dishonest or destructive behavior as serious offenses. A student whose influence is found to be injurious to the standards of morals of the student body, or whose conduct is prejudicial to the good name of the University, may be dismissed. The right to dismiss a student is reserved to the President.

W-12. Possession or use of alcoholic beverages on University property, and maintenance of bars, dispensing equipment, or similar facilities for storing or serving alcoholic beverages in any student or social unit, are prohibited.

W-13. The Senate Committee on Student Affairs shall hold student organizations responsible for the good conduct of all persons at all University related functions, and for conformance to the laws of the Municipality, Commonwealth, and Nation. Any individual or organization whose conduct is found to be prejudicial to the good name of the University will be subject to disciplinary action. Such action may include suspension or expulsion of individuals, or the suspension or revocation of the charters or organizations.

W-14. Any student who attempts to register for another student, or who permits it to be done on his behalf, or who in any way attempts to falsify University records shall be subject to disciplinary action.

W-15. Details of Senate regulations for undergraduate students shall be embodied in a "Guide to University Regulations Concerning Student Affairs, Conduct and Discipline" which shall be given to each student entering the University. Procedural details contained in this guide may differ among the several campuses.

Y - Rules — Student Activities

Y-11. The Senate Committee on Student Affairs shall have authority over all student organizations and activities (including professional, dramatic, musical, political, journalistic, social, etc.) and it shall have the authority to investigate the operations of organizations engaged in such activities. Its consent is necessary before any student organization may be established. Eligibility for participation in such student activities shall be determined by the Dean of Men, Dean of Women, or the appropriate Student Affairs Officer at a Commonwealth Campus.

No petitioning organization with restrictive membership clauses regarding race, religion, or creed shall be granted a charter provided that special consideration will be given to the merits of bona fide religious groups not founded for the purpose of religious discrimination. After June 30, 1965, any social organization which has restrictive clauses still unre-moved shall be required to become inactive until the restrictive qualifications for membership are eliminated.

Y-12. A student on probation shall not participate in any extracurricular activity of the University except that he may continue to be an ordinary member of any organization without holding any office or committee membership whatsoever and without taking any active part in its activities.

Y-13. Student organizations shall not offer any public entertainment without prior authorization.

Y-14. Use of University facilities by student organizations is restricted to those that have been granted recognition by the Senate

Committee on Student Affairs or are sponsored by a Department or College of the University.

Y-15. The direct supervision of the operation of any student communications medium shall be vested in a board of directors to be composed of student and faculty members. The method of selection of this board shall be specified in the constitution of the organization.

Z - Rules — Student Social Organizations

Z-11. Social functions may be held only in places approved by the Dean of Men or the Dean of Women or the Student Affairs Office of a Commonwealth Campus.

D. G. McGarey, Chairman of the SENATE COMMITTEE ON FACULTY AFFAIRS, announced that a dinner honoring Evan Pugh will be held on Saturday, February 10, in the Hetzel Union Building Ball Room, with tickets available at \$2.50 each. A program is being planned jointly by the Land Grant Centennial Committee and the Senate Committee on Faculty Affairs. Dr. David D. Henry, President of the University of Illinois will be the principal speaker.

Comments and Recommendations for the Good of the University

President Walker commented on the Annual meeting of the Board of Trustees which was held on Friday and Saturday, January 5 and 6 in Harrisburg. The next regular meeting of the Senate will be on Tuesday, February 6, 1962; the agenda will be distributed on January 23, 1962. The meeting adjourned at 4:35 p.m.

Robert G. Bernreuter
Secretary

Library —

(Continued from page one)

isn't reflected in the total volumes we are able to report.

"Microfilming doesn't guarantee that we have immediately available a particular source of materials on any given subject. Until the need arises we don't know what we should put on microfilm; to do so indiscriminately would be a waste of our resources."

Even with acknowledged deficiencies, the Library has established some reputation. Dr. E. F. Osborn, vice-president for research, points out that to his knowledge no research program has been turned down by potential sponsors because of Library limitations.

"But," says McComb, "the amount of material being put into print today is almost beyond comprehension. We will do well to maintain a reasonably representative picture of the various areas of knowledge the faculty and students are concerned with."

Concert

The University Symphony Orchestra, Theodore Karhan conducting, will feature music of Bach, Kalinnikov, Delius and Kennon in its annual Winter Concert Sunday, Jan. 28 at 3:15 p.m. in Schwab Auditorium. The Bach work is Suite No. 3 in D major and the work by Kalinnikov is his Symphony No. 1.

In Harrisburg President explains needs

Dr. Walker appeared before a scheduled joint meeting of the Senate and House Appropriations Committees on January 16. In a 2-hour session, he reviewed Penn State's request for a \$5.5 million increase in its State appropriation for 1962-63, and stated that these additional funds would be used:

<i>For residual cost of teaching</i>	
<i>2,400 students</i>	\$1,850,000
<i>For salary increases</i>	
	2,000,000
<i>For equipping new buildings</i>	
	650,000
<i>For new agricultural and industrial research</i>	
	1,000,000

In urging legislative review of Governor Lawrence's proposed \$1.5 million increase, Dr. Walker stated that such a sum would force drastic curtailment of next year's freshman class, the postponement of new research requested by Pennsylvania farmers and businessmen, and a possible increase in student fees to cover competitive faculty salary adjustments.

In response to a specific question about the proposed change in the status of Temple University, Dr. Walker stated that he could not comment

without reference to a statewide Master Plan for Higher Education which does not yet exist.

"Governor Lawrence's Committee on Education quite reasonably proposed that 'determination of how and where specific expansion occurs should be . . . an integral part of the Master Plan for higher education,'" Dr. Walker said. "We at Penn State have been postponing action on urgent requests for our help, on the assumption that a Master Plan was being developed. It now appears that others feel that they cannot, or need not, wait indefinitely to fit their development programs into such a Plan.

"If such incremental planning is now the State's policy, we are ready to go ahead with expansion of our existing Commonwealth Campuses for the training and retraining of Pennsylvania workers, with the development of new regional campuses, with extension of our programs of labor education, and with a series of research projects ranging from ground-water conservation and the preparation of county soil inventory maps to Area Economic Surveys and the improvement of traffic safety."

NEWS IN BRIEF

► **ELECTRICAL:** The department of physical plant planning and construction advises faculty and staff members that certain types of electrical or electronic equipment may be affected by electric pulses being transmitted throughout University electric lines from a frequency generator. The generator has been installed to actuate remotely various controls on the utility systems and it transmits a series of two to four pulses at 2925 and 3803 cycles over a period of 60 seconds. The pulses may be filtered out by special filters, the cost of the filters depending on the electrical load. Before purchasing equipment which might be affected by these pulses, departments should contact T. B. Kneen or R. W. Knouse, 5-5411. If filters are needed, they should be specified in the original installation of the equipment.

► **INSTITUTE:** The faculty-staff committee for the annual Alumni Institute will have as chairman, Ralph H. Wherry, head of the department of commerce and management and will include 28 members of the faculty and staff, whose job it will be to "establish a theme for the Institute, organize the necessary subcommittees, select faculty participants, and frame the program."

► **HONORED:** Dr. Edward M. Steidle, dean emeritus of the College of Mineral Industries, has been chosen to receive the 1962 Mineral Industries Education Award of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Presentation of the award will be made Feb. 18 at a meeting of the AIME Council of Ed-

(Continued on page four)

Graduate lectures

Dr. Allan Simpson, dean of the College, the University of Chicago, will be the next speaker in the Graduate School Lecture Series, Wednesday, Feb. 21, co-sponsored by the departments of history and English.

He will speak on "Reconstructing a Tudor Success Story: the Career of Nicholas Bacon."

During the Spring Term, H. Richard Niebuhr, Yale University Divinity School, will lecture May 14.

Centennial

Dr. David D. Henry, distinguished alumnus and former faculty member of the University, will be the speaker at the Land-Grant Centennial banquet Feb. 10 in the HUB ball room.

The banquet, arranged by the Senate Faculty Affairs Committee in co-operation with the Centennial Committee, will honor the memory of Dr. Evan Pugh, first president of the University and a leader in the establishment of the land-grant legislation.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
National Institutes of Health	\$15,621	New — research in "Cellular and Mitochondrial Metabolism in the Avian Oviduct and Peleypod."	Rosemary Sehraer, biophysics
Pennsylvania Pest Control Assoc., Inc.	200	New — contribution to John Vogel Memorial Fund for pest control research.	Robert Snetsinger, entomology
William H. Rea, Pittsburgh	50	Gift to Southwestern Research Laboratory.	L. D. Wissinger, agronomy
E. I. DuPont de Nemours and Co., Wilmington	800	New — grant in aid for metallurgical research.	R. W. Lindsay, metallurgy
Allegheny Ludlum Steel	800	New — grant in aid for research under the Co-operative Program in Metallurgy.	R. W. Lindsay, metallurgy
Commonwealth of Penna., Dept. of Property & Supplies	14,300	Renewal — support of the Fuels Advisory Service.	W. L. Muehlitz, engineering experiment
International Business Machines Corp.	1,000	Grant to the University enrolling one of the company's employees as full-time graduate student.	President Walker

CALENDAR

Friday, Jan. 26

College of Agriculture Faculty Seminar, 3:55 p.m., Room 112 Buckhout. C. W. Pierce and P. G. Helmberger, on "Programs for Pennsylvania Farm Committees."

Center Stage production of "Five Finger Exercise," 8 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. J. A. Winchester, department of geochemistry, Massachusetts Institute of Technology, on "Rare Earth Geochemistry."

Friends of India celebration of the 12th anniversary of the Republic Day of India, 7:30 p.m., United Church of Christ, with films, variety entertainment, and Indian-style refreshments.

Fluid Mechanics Seminar, 4 p.m., Room 128 Sackett. Dr. Ernst Schmidt, professor emeritus, Technical University, Munich, Germany, on "The Determination of the Viscosity of Steam up to Extreme Pressures of 11,000 psi and Temperatures of 1150° F."

Lecture by G. Mennan Williams, assistant secretary of State for African Affairs, 8 p.m., Mineral Industries Auditorium, on "African Developments in Perspective," in Political Science Lecture Series.

Saturday, Jan. 27

Center Stage production of "Five Finger Exercise," by Peter Shaffer, 8 p.m.

Artists Series program by The Cleveland Playhouse, "Pictures in the Hallway," 3 p.m. and 8:30 p.m., Schwab Auditorium.

University Christian Association Forum, 6 p.m., HUB dining room "A". Dr. and Mrs. Edgar Miller, medical missionaries to Nepal, speakers.

Sunday, Jan. 28

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Malcolm Diamond, associate professor of religion, Princeton University, on "Hasidim and the Way of Man."

University Symphony Orchestra concert, 3:15 p.m., Schwab Auditorium, Theodore Karhan conducting.

Hillel Foundation Cultural Film Series, 8 p.m., "Hill 24 Does Not Answer," award-winning Israeli film.

Monday, Jan. 29

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". E. J. Anderson, professor of apiculture, on "Observations of Latin Countries in Europe."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. H. E. Shull, on "Plastic Analysis of Rectangular Plates."

Physics Colloquium, 4:15 p.m., Room 119 Osmond. Dr. Charles Goebel, associate professor of physics, University of Wisconsin, on "Current Uses of Dispersion Methods."

Tuesday, Jan. 30

College of Engineering film series, "Talking Sense," by Dr. Irving J. Lee, 3:55 p.m., Schwab Auditorium. (Visitors occupy balcony or other unassigned seats.)

Wednesday, Jan. 31

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Jesse Burleson, on "History of the U. S. Weather Bureau."

Film series sponsored by Committee on the Biological Sciences and Botany Seminar, 11:10 a.m., Room 112 Buckhout, "Genetics."

Thursday, Feb. 1

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. W. J. Kieffer, Journal of Chemical Education, on "What's Going on in Chemical Education."

International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. "Potemkin" and "The Red Balloon."

Television Listings

(for week of Jan. 29, WFBG-TV, Altoona)

FOLIO 15

9 - 9:15 a.m.

Monday — Sidney A. Bowhill, associate professor of electrical engineering, on "The Sun: Energy Unlimited."

Tuesday — Wilmer E. Wise, assistant to the dean of men, on "Campus Greeks: A Decadent Society?"

Wednesday — Charles Steinberg, assistant professor of labor education, on "The Electrical Engineers and Their 20-hour Work Week."

Thursday — Dorothy J. Lipp, dean of women, on "The College Woman as Housewife."

Friday — H. Bruce Bylund, associate professor of agricultural economics, "The Overflowing Grocery Cart."

News —

(Continued from page three)

uation in New York City. The Citation accompanying the award says, "for his outstanding career as an engineering teacher, a college administrator, a great public servant, and a brave soldier in World War I. In all of these endeavors, at home and abroad, he has been a courageous and inspiring leader."

► **LIBRARY:** A memorial reference library has been installed in Allegheny House, one of the units in North Halls, with a gift from Mrs. W. D. Stevenson, of Pittsburgh, in memory of her husband, an 1899 graduate of Penn State who was an engineer prior to his death in 1959. Reference books helpful to students in their study assignments comprise the collection. It is hoped that similar libraries will be installed in other housing units.

► **OWENS:** Dr. F. W. Owens, to whom a seminar room in McAllister Building was recently dedicated, joined the University faculty as head of the department of mathematics in 1926 and retired in 1949.

► **EXAM:** The regular written Foreign Language Examinations will be held Monday, Jan. 29, at 7 p.m. Those in German will be in Room 121 Sparks, those in French and Spanish in Room 10 Sparks, and those in English in Room 205 Sparks. Conflict examination in German will be held Tuesday, Jan. 30, at 7 p.m. in Room 12 Sparks.

► **ENGLISH:** Eighteen freshmen who entered the University this month have been exempted from the basic English course, according to Dr. Henry W. Sams, head of the English department.

faculty BULLETIN

Vol. 49, No. 26

Jan. 26, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F. DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. Thorseten V. Kalijarvi, distinguished political scientist and public official, is currently serving as visiting professor of political science. During the past four years he served as U.S. Ambassador to El Salvador and previously had held several other positions in the Department of State. Prior to the war he was professor and head of the department of political science at the University of New Hampshire and from 1942 to 1947 was executive director of the New Hampshire State Planning and Development Commission.

Dr. Donald R. Olsen, associate professor of mechanical engineering at Yale University, will become professor of mechanical engineering at Penn State June 1. He is an Oregon State College graduate, receiving master and doctor of engineering degrees at Yale.

Dr. Darrell E. Walker, associate professor of plant breeding, has been appointed acting head of the department of horticulture, succeeding Dr. Russell E. Larson, new director of agricultural and home economics extension. Dr. Walker joined the faculty in 1954, having previously served in industry, and in college and high school.

N. Richard Diller, associate professor of psychology in Continuing Education and member of the Management Training staff, has been granted a six-months leave of absence to continue work for his doctorate in psychology. The leave began Feb. 1.

Dr. Jacob J. Kaufman, professor of
(Continued on page four)

NEWS IN BRIEF

➤ **FILM SERIES:** The Committee on the Biological Sciences Lecture Series in cooperation with the Botany Seminar is sponsor of a series of films, "The Promise of the Life Sciences" which began this week and will continue each Wednesday until Feb. 28. The films are shown in Room 112 Buckhout at 11:10 a.m. and the film for Feb. 7 is "Biological Transformation of Energy," with A. Szent-Gyorgi, Woods Hole Marine Biological Laboratory as lecturer.

➤ **DANCE:** Charles Weidman, noted dance professional, will give a solo performance at White Building Saturday, Feb. 3, at 3:30 p.m., sponsored by Women's Recreation Association. He will also conduct a master class from 1:30 to 3 p.m.

➤ **POET:** William Jay Smith, noted poet, is guest speaker at the Ogontz Campus this evening (Friday), sponsored by the Belles Lettres Club and Student Government Association.

➤ **FRESCO:** Color reproductions of the Lincoln panel of the Land-Grant murals in Old Main have been requested by the University of Illinois, for display in its Lincoln Hall, and by Texas Cooperative News, a newspaper which serves 13,000 farmers, ranchers, and managers of agricultural cooperatives in central Texas.

Brotherhood

The annual Brotherhood Banquet sponsored by the Committee on Inter-religious Affairs will be held Monday, Feb. 12, at 6 p.m. in the HUB ball room. Speaker will be Dr. Benjamin Mays, president, Morehouse College, Atlanta, Ga., who will talk on "Brotherhood Across Race and Culture." Tickets, priced at \$2.50, may be obtained at the Chaplain's Office or at the HUB desk.

Artists series

The next performance in the Artists Series will be given by Modern Jazz Quartet Sunday, Feb. 4, at 8 p.m. in Recreation Building, tickets for which are on sale at the HUB desk today (Friday) and tomorrow. The next Artists Series program will be given by the Netherlands Chamber Choir Wednesday, Feb. 28.

NO MEETING

There will be no meeting of the University Senate Tuesday, Feb. 6 as originally scheduled.

➤ **LAW TEST:** The Law School Admission Test will be given Feb. 10 in Room 109 Armsby Building, administered by the department of political science.

➤ **PI GAMMA MU:** New faculty or staff members and graduate students who have been members of Pi Gamma Mu, social science honorary, at other colleges and universities, are asked to call Dr. Emory Brown, 5-6561, secretary of the local chapter, so that their names can be included in the list of campus members.

➤ **SEMINAR:** The 1962 European Seminar sponsored by the Committee on Inter-Religious Affairs will depart New York June 24 for stops in England, Holland, Italy, Switzerland, and France before returning July 22. Extensions of the basic trip will include either further time in France or in Germany, concluding July 31. The tour will be limited to 20 members and will be directed by Clifford A. Nelson, assistant co-ordinator of religious affairs.

Centennial

Tickets are still available for the Land-Grant Centennial dinner at the Hetzel Union Building Saturday, Feb. 10. The following faculty and staff members have tickets available:

Agriculture — S. I. Auken; Business Administration — W. M. Hench; Chem-Physics — Alice Long; Education — G. J. Free; Engineering — MacDonald Heebner; Home Economics — Joan Whittier; Liberal Arts — H. J. O'Brien; Mineral Industries — Delores Warrington; Physical Education — Mary Sprankle; Old Main — R. E. Beam; Willard — R. E. Tscham; Continuing Education — Thomas Hammonds; Commonwealth Campuses — K. L. Holderman; Centre County Alumni — Mary Neilly; Retirees — J. S. Cobb.

Lecture series

A member of the Cabinet of President Kennedy and a prominent radio-television news analyst will be featured in the University Lecture Series within the next fortnight.

Luther H. Hodges, Secretary of Commerce and former governor of North Carolina, will speak Sunday, Feb. 11 at 8:30 p.m. in Schwab Auditorium. Tickets will be sold to the public, at \$1.25 each, Thursday, Feb. 8, through Saturday, Feb. 10.

Eric Sevaried, Columbia Broadcasting System commentator and for years the network's chief Washington Correspondent, will speak Saturday, Feb. 17, at 8:30 p.m. in Schwab.

Registrar Reports on Enrollment for Winter Term, 1962

	1st Term	2nd Term	3rd Term	4th Term	5th Term	6th Term	7th Term	8th Term	9th Term	10th Term	11th Term	12th Term	13th Term	14th Term	15th Term	Total
AGRICULTURE																
ABCh	—	—	—	—	1	—	1	10	—	—	6	—	—	—	—	18
ABSc	—	1	4	9	244	26	17	1	—	1	—	—	—	—	—	303
AERS	—	1	—	—	—	—	—	14	4	1	11	5	—	—	—	36
AgEd	—	—	—	—	—	2	—	22	—	1	27	4	—	—	—	56
AgJ	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	2
Ag	5	204	25	6	4	—	1	1	—	—	1	—	—	—	—	247
Agro	—	—	—	—	—	—	1	8	1	—	7	—	—	—	—	17
AH	—	—	—	—	—	—	3	20	—	2	15	2	—	—	—	42
Bact	—	—	—	—	1	—	1	17	—	1	4	1	—	—	—	25
BPP	—	—	—	—	1	—	—	5	—	—	2	1	—	—	—	9
Consv	—	—	—	—	—	—	—	—	2	—	2	—	—	—	—	4
DSc	—	—	1	1	—	—	1	29	—	—	9	2	—	—	—	43
FRD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
GnAg	—	—	—	—	—	—	—	6	2	—	7	2	—	—	—	17
Hort	—	—	—	—	—	—	—	14	1	3	15	4	—	—	—	37
LArch	—	4	—	1	20	2	—	12	—	—	9	6	1	—	—	55
MedT	—	1	—	—	1	—	1	15	1	1	11	—	—	—	—	31
PH	—	—	—	—	—	—	—	1	—	—	1	—	—	—	—	2
PV	—	—	2	—	1	—	1	21	1	—	—	—	—	—	—	26
ZE	—	—	—	—	1	—	2	22	3	1	14	10	—	—	—	53
School of Forestry																
For	—	—	—	—	1	—	2	10	44	2	44	5	1	—	—	110
WU	—	—	—	—	1	—	—	8	1	—	2	2	1	—	—	15
2-Yr. Ag	2	17	1	—	3	—	1	—	—	—	—	—	—	—	—	24
Total	7	228	33	17	279	30	32	237	61	13	187	45	3	—	—	1172
BUSINESS ADMINISTRATION																
BA	4	316	37	29	330	45	49	318	58	33	278	82	6	1	—	1581
Total	4	316	37	29	330	45	49	318	58	33	278	82	6	1	—	1581
CHEMISTRY & PHYSICS																
C&P	5	343	21	4	1	1	—	—	—	—	—	—	—	—	—	375
ChE	—	—	—	—	56	1	5	58	6	—	44	6	—	—	—	176
Chem	—	—	—	1	52	7	2	32	4	1	32	6	—	—	—	137
Phys	—	—	1	2	46	9	2	31	10	1	24	12	—	—	—	138
PM	—	—	—	1	47	9	3	33	8	2	22	4	—	—	—	129
Sc	—	1	—	1	16	2	—	12	6	1	14	3	—	—	—	56
Total	5	344	22	9	218	29	12	166	34	5	136	31	—	—	—	1011
EDUCATION																
AEd	—	—	—	1	31	5	9	31	6	1	21	2	—	—	—	107
Ed	8	517	117	3	15	—	2	1	—	1	—	—	—	—	—	664
EKEd	1	2	4	12	265	47	27	216	48	8	160	24	—	—	—	814
IArt	—	—	1	2	7	3	5	9	3	3	13	10	2	—	—	58
MuEd	—	—	—	—	20	2	—	14	1	2	19	1	—	—	—	59
Psy	—	—	2	6	87	27	15	92	18	16	77	12	—	—	—	352
RehEd	—	—	—	1	15	4	3	12	2	—	3	3	—	—	—	43
SecEd	—	3	2	15	189	37	35	192	34	22	184	48	1	—	—	762
VIDEd	—	—	—	—	—	—	—	1	2	—	1	—	1	—	—	5
Total	9	522	126	40	629	125	96	568	114	53	478	100	4	—	—	2864
ENGINEERING & ARCHITECTURE																
AerSP	—	—	1	3	51	13	5	37	11	2	30	8	1	—	—	162
AgE	—	4	1	—	15	1	2	13	1	—	8	7	—	—	—	52
Arch	—	76	2	4	46	5	3	29	3	2	14	2	1	10	3	200
AE	—	18	1	1	7	—	—	4	2	—	8	1	2	8	2	54
CE	—	—	—	—	30	29	9	51	7	4	47	13	3	2	—	195
EE	—	2	—	3	136	43	12	160	44	14	129	69	3	—	—	615
Engr	14	614	89	13	5	—	—	—	—	—	—	—	—	—	—	735
EMch	—	—	—	—	19	3	—	15	4	—	13	6	2	—	—	62
ESc	—	—	—	—	24	4	—	13	1	—	12	4	—	—	—	58
IE	—	—	—	3	36	7	2	23	7	8	44	12	—	—	—	142
ME	—	—	1	6	91	13	10	73	12	7	66	20	3	—	—	302
SE	—	—	—	—	—	—	—	—	—	—	4	1	—	—	—	5
Total	14	714	95	33	460	118	43	418	92	37	375	143	15	20	5	2582
HOME ECONOMICS																
HEc	2	145	26	10	133	21	10	113	31	3	88	9	—	—	—	591
HIA	—	—	—	—	1	—	—	—	—	—	13	2	—	—	—	16
2HFS	—	67	2	1	3	—	1	—	—	—	—	—	—	—	—	74
Total	2	212	28	11	137	21	11	113	31	3	101	11	—	—	—	681
THE LIBERAL ARTS																
AL	—	2	2	21	360	74	40	333	88	31	288	50	4	1	—	1294
LA	14	765	96	9	13	3	1	6	5	3	3	3	—	—	—	921
LMR	—	—	—	—	6	—	—	15	4	—	12	1	—	—	—	38
School of The Arts																
AArt	—	1	2	1	38	3	—	27	5	—	16	6	—	—	—	99
Arts	—	—	—	—	7	1	2	7	5	1	14	2	—	—	—	39
School of Journalism																
Journ	—	—	—	4	75	9	5	55	8	4	43	2	—	—	—	205
Total	14	768	100	35	499	90	48	443	115	39	376	64	4	1	—	2596

Registrar Reports on Enrollment for Winter Term, 1962

	1st Term	2nd Term	3rd Term	4th Term	5th Term	6th Term	7th Term	8th Term	9th Term	10th Term	11th Term	12th Term	13th Term	14th Term	15th Term	Total
MINERAL INDUSTRIES																
CerT	—	—	—	—	24	—	2	8	2	—	7	1	—	—	—	44
FT	—	—	—	—	4	—	1	5	2	2	8	1	—	—	—	23
Geog	—	—	—	—	5	—	—	3	1	1	8	2	—	—	—	20
GG	—	—	—	—	4	1	—	2	—	—	3	4	—	—	—	11
GM	—	—	—	—	5	—	—	4	—	—	3	—	—	—	—	12
GSc	—	—	—	1	11	3	1	8	—	—	—	2	—	—	—	26
Metal	—	—	—	2	19	3	2	13	1	1	24	6	—	—	—	71
Meteo	—	—	1	3	15	4	1	17	5	2	10	18	1	—	—	77
MnEc	—	—	—	—	3	—	—	7	—	—	10	2	—	—	—	22
Mnl	1	112	10	1	—	—	—	—	—	—	—	—	—	—	—	125
MPE	—	—	—	1	2	—	1	3	—	—	3	—	—	—	—	10
MngE	—	—	1	6	2	1	—	6	—	—	2	—	—	—	—	18
PNGE	—	—	1	1	1	2	1	6	—	—	11	3	1	—	—	27
Total	1	112	13	15	95	14	9	82	11	6	89	40	2	—	—	489
PHYSICAL EDUCATION & ATHLETICS																
PhEd	—	41	11	6	58	9	7	61	2	6	54	13	—	—	—	268
RecEd	—	—	—	—	7	1	—	9	1	—	4	3	1	—	—	26
Total	—	41	11	6	65	10	7	70	3	6	58	16	1	—	—	294
DIVISION OF COUNSELING																
Coun	1	284	67	16	355	49	15	95	9	3	15	—	—	—	—	909
Total	1	284	67	16	355	49	15	95	9	3	15	—	—	—	—	909
TOTAL UNDERGRADUATES																
Total	57	3541	532	211	3067	531	321	2509	528	198	2094	532	31	22	5	14179

U. P. Campus	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals			
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T	
Full-time	2630	1485	2344	1435	2197	1136	2058	758	533	90	37	9	9799	4913		14712
Part-time	5	10	21	9	13	12	45	21	1165	252	99	94	1348	398		1746
Total	2635	1495	2365	1444	2210	1148	2103	779	1698	342	136	103	11147	5311		16453
	4130		3809		3358		2882		2040		239					
Other Campuses (see summary below)																
Full-time (4-Yr.)	831	316	495	122	18	3	1	—	—	—	5	1	1350	442		1792
Part-time (4-Yr.)	11	2	4	2	3	—	2	1	—	1	15	10	35	16		50
Full-time (2-Yr.)	880	5	521	2	7	—	—	—	—	—	2	—	1410	7		1417
Part-time (2-Yr.)	18	1	52	—	—	—	—	—	—	—	—	1	70	2		72
Total (includes Mont Alto)	1740	324	1072	126	28	3	3	1	—	1	22	12	2865	467		3332
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	225	92	937	768	1162	860		2022
Off-Campus Res.	—	—	—	—	—	—	—	—	26	10	—	—	26	10		36
ALL CAMPUSES	4375	1819	3437	1570	2238	1151	2106	780	1949	445	1095	883	15200	6648		21848
	6194		5007		3389		2886		2394		1978					

Summary of Enrollment at Other Campuses

	Four-Year		Graduate & Special		Two-Year		Total
	FT	PT	FT	PT	FT	PT	
Allentown	—	—	—	—	102	3	105
Altoona	225	3	5	9	143	6	391
Behrend	153	1	—	1	92	6	253
DuBois	71	1	—	3	55	1	131
Hazleton	129	5	—	1	95	2	232
McKeesport	163	7	—	3	172	17	362
Mont Alto	106	—	—	—	—	—	106
New Kensington	—	—	—	1	80	11	92
Ogontz	780	8	—	3	81	3	875
Pottsville	159	—	1	6	44	—	210
Scranton	—	—	2	—	98	3	103
Wilkes-Barre	—	—	—	—	156	3	159
Wyomissing	—	—	—	—	167	8	175
York	—	—	—	—	130	8	138
Total	1786	25	8	27	1415	71	3332

Graduate, Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	250	24	9	3
Business Adm.	60	2	16	2
Chemistry & Physics	292	19	8	2
Education	236	86	40	31
Engineering & Architecture	232	—	11	1
Home Economics	4	60	—	3
Liberal Arts	298	120	43	56
Mineral Industries	245	4	8	2
Physical Education	33	9	1	3
General Graduates	29	18	—	—
Interdisciplinary Fields: B. Phys.	7	—	—	—
SST	12	—	—	—
Total	1698	342	136	103

Recapitulation

U. P. Campus	M	W	Total
Full-time undergraduate	9229	4814	14043
Part-time undergraduate	84	52	136
Total undergraduate	9313	4866	14179
Full-time graduate	533	90	623
Part-time graduate	1165	252	1417
Total graduate	1698	342	2040
Full-time special	37	9	46
Part-time special	99	94	193
Total special	136	103	239
Total U. P. Campus	11147	5311	16458
Other Campuses and Off-Campus			
	M	W	Total
Full-time undergraduate	2753	448	3201
Part-time undergraduate	90	6	96
Part-time Continuing Ed. undergraduate	937	768	1705
graduate	225	92	317
Full-time graduates	—	—	—
Part-time graduates	—	1	1
Off-Campus Research	26	10	36
Specials	22	12	34
Totals	4053	1337	5390
Totals All Campuses	M	W	Total
Undergraduates	13093	6088	19181
Graduates	1949	445	2394
Specials	158	115	273
Grand Totals	15200	6648	21848

CALENDAR

Friday, Feb. 2

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. H. M. Dintzis, professor of biophysics. The Johns Hopkins University, on "Assembly of the Hemoglobin Molecule."

Mineral Industries Colloquium, 3:55 p.m., Mineral Industries Auditorium. Dr. P. B. Barton, U. S. Geological Survey, Washington, D.C., on "Equilibrium and Ore Deposits."

College of Agriculture Faculty Seminar, Room 112 Buckhout, 3:55 p.m. M. E. John and J. H. Ferguson, on "Changes in Population, Communities, and Political Influence."

Saturday, Feb. 3

Center Stage production of Peter Shaffer's "Five Finger Exercise," 8 p.m.

Gymnastics, vs. Navy, 8 p.m., Rec Hall. Charles Weidman, modern dance performance, 3:30 p.m., and dance lessons, 1:30 p.m., White Building, sponsored by Women's Recreation Association.

Sunday, Feb. 4

Protestant Service of Worship, 9 a.m., The Chapel. Genevieve Dilts.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain, on "And Crown Thy Good."

Artists Series, 8 p.m., Recreation Building. Modern Jazz Quartet.

Monday, Feb. 5

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." John D. Vairo, assistant professor of journalism, on "Regional Planning."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Andrew Pytel, on "Some New Topics in Stress Wave Propagation."

Tuesday, Feb. 6

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Owen H. Sauerlander, on "An Objective Theoretical Framework for the Estimation of Subjective Probability and Personal Utilities."

Wednesday, Feb. 7

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Ray Booker, on "Modification of Squall Lines by Lee Waves."

Home Economics Research Seminar, 12:30 p.m., HUB dining Room "A." Dr. Elizabeth M. Ray, associate professor of home economics education, on "What Makes an Effective Home Economics Program in the Secondary Schools."

Biological Sciences Film Series, 11:10 a.m., Room 112 Buckhout. "Biological Transformation of Energy."

Thursday, Feb. 8

Films by Charles Eames (Parade, Communications, Toccata for Toy Trains, and Baroque Churches), sponsored by the department of architecture, 7:30 p.m., Room 110 Electrical Engineering.

Mining Seminar, 4 p.m., Room 304, Mineral Industries. C. Manula, res. asst., on "Factors in Ammonium Nitrate Blasting Underground."

College of Business Administration faculty meeting, 3:55 p.m., Room 214 Boucke.

International Film Program, 3, 7, and 9 p.m., HUB Assembly Room, "The Maltese Falcon." Tickets at HUB desk, 50 cents.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. A. F. Cotton, Massachusetts Institute of Technology.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Fred C. Unterleitner, research division, General Dynamics Electronics, on "Organic Lasers."

Lectures on Mormonism, 7:30 p.m., Room 210 Chapel, by students and faculty lay members of Mormon Church.

Television listings

(for week of Feb. 5, WFBG-TV, Altoona)

FOLIO 15

9 - 9:15 a.m.

Monday — Kenneth R. Beittel, associate professor of art education, on "Creative Power: Hidden Resource."

Tuesday — Ralph W. McComb, University librarian, on "The Legacy of John O'Hara."

Wednesday — Henry A. Finch, professor of philosophy, on "Have Morals Disappeared."

Thursday — Anne R. Free, assistant professor of general home economics, on "Who is Well-Bred."

Friday — Stanley H. Rosen, assistant professor of philosophy, on "The Big Duality: Two Worlds on Earth."

Personnel —

(Continued from page one)

economics, has been awarded a Ford Foundation Faculty Research Fellowship for the 1962-63 academic year to conduct research on "The Issue of Work Rules in Collective Bargaining."

Dr. Vladimir Vand, professor of physics in the College of Chemistry and Physics since 1953, has been appointed professor of crystallography in the College of Mineral Industries.

Dr. Paul T. Baker, associate professor of anthropology, has been granted a Fulbright Research Scholarship to carry on anthropological studies of Peruvian Indians, an area of work he has carried on for several years. He will be on leave from March 17 through December.

Dr. Stanley H. Rosen, assistant professor of philosophy, has been named Liberal Arts Research Scholar for the Winter Term and will do additional research for his book, tentatively titled, "Philosophy and History."

Books

Dr. Philip S. Klein, professor of American history, "President James Buchanan, A Biography" published by The Pennsylvania State University Press Feb. 1. Dr. Klein has done research on Buchanan for many years, beginning with his master's thesis at the University of Chicago.

John R. Zimmerman, assistant professor of mechanical engineering, textbook, "Elementary Kinetics of Mechanisms," published by John Wiley and Sons, Inc., for use in technical institutes, community colleges, correspondence schools, and evening schools.

faculty BULLETIN

Vol. 49, No. 27

Feb. 2, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32



faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Statement—

The President's Office today issued the following statement concerning 1962 admissions:

IT is the policy of the University to stabilize enrollment during the academic year 1962-63 at the 1961-62 level. In order to do this, it will be necessary to reduce by 20% the number of freshmen admitted to the University Park Campus for the Fall 1962 Term. In all, 3000 freshmen, including 2150 men and 850 women, will be admitted at University Park. An additional 2500 freshmen will be admitted to the other Commonwealth Campuses.

Students whose high school records place them in the first fifth of their high school graduating class will be offered admission first. Any remaining places will be offered to those students who have the highest predicted grade point averages (based upon their high school records and their College Entrance Examination Board scores).

An applicant for fall admission for whom there is room will be admitted to the University Park Campus or other Commonwealth Campus of his choice. If his first-choice campus is filled, he will be offered admission to one of the other campuses, or he will be offered an opportunity to enroll starting with the Summer Term, until all facilities are filled.

Fellowships

Faculty members are asked to call to the attention of outstanding advanced graduate students that the deadline for filing applications for one of the twelve Graduate School Fellowships for 1962-63, is March 1. Eleven

(Continued on page two)

Aide scholarships

The program of Faculty Aide Scholarships, begun last year, will be continued for the 1962 Summer Term, with some revision in the plan.

Purpose of the scholarships is to aid outstanding junior and senior students in the various departments to acquire some funds for the Summer Term and to gain valuable experience through work in their specialized fields in close association with a member of the faculty.

Nominations for these scholarships, which will pay \$100, must be made by a member of the faculty who is scheduled for full-time teaching and/or research for the Summer Term and who will direct the student's work.

Approximately 50 hours of work will be required of the student, who will receive the amount of the scholarship at the satisfactory completion of his duties at the end of the Summer Term.

One hundred scholarships have been made available by President Walker. Nomination blanks are available in offices of the several vice-deans for instruction of the Colleges.

Lecture

The lecture by Secretary of Commerce Luther H. Hodges, originally scheduled for 8 p.m., Sunday, Feb. 11, has been changed to 3 p.m. in Schwab Auditorium.

A ten-minute question period at the end of the talk will be followed by a coffee hour in the HUB for anyone interested.

Governor of North Carolina for six years before his appointment to President Kennedy's cabinet in January of last year, Hodges has served the Federal Government in various capacities since 1944.

REGISTRATION

The President's Office announced today that registration for the Spring Term will begin on Tuesday, March 27, instead of Monday, March 26. Monday will be devoted to student advising. Registration will end on Wednesday and classes will begin at 8 a.m. Thursday, March 29.

The change in schedule, it was pointed out, will provide students with a whole day in which to consult with their advisors, effect transfers among academic programs, adjust their schedules for the Spring Term, and prepare their early registration for the Summer or Fall Term.

Experience with the Winter Term registration revealed the desirability of having a day for advising prior to registration in Recreation Building.

Residence Halls will open on Sunday, March 25. The first meal will be served in the evening.

Centennial

Dr. David Dodds Henry, president of the University of Illinois, will give the principal address at the dinner recognizing the Centennial of the Morrill Land-Grant Act tomorrow (Saturday) at 6 p.m. in the HUB ballroom.

Tribute will be paid to Evan Pugh, first president of the University, who played a major role in promoting the idea of public colleges and in winning acceptance of the idea by the State legislature.

A bronze bust of Pugh is being made by Allen Harris, young sculptor who completed the busts of the late President Sparks and Professor A. Howry Espenshade which are now in Pattee Library. All busts were provided by the Class of 1911, as well as that of the late Dr. Fred Lewis Pattee.

Cost figures

The President's Office, in a letter this week to Chairman J. Dean Polen of the House-Senate Appropriations Committees under date of February 2, said that the average cost of instruction per student at Penn State was not as high as alleged in budget hearings in Harrisburg on Jan. 16.

The letter to Chairman Polen said the average cost of instruction per student was \$1,216.00 for fiscal 1960-61 and not \$3,354.57 as given in the hearings and that the University's administration expense during the 1950-60 period had been reduced percentage-wise despite a growing volume of new services and new programs. Today it represents only 2.4 per cent of all University expenditures, the letter added.

Ford grant

A \$75,000 grant has been made to the University by the Ford Foundation to aid doctoral candidates in the field of engineering through forgivable loans for the next two years.

The grant is part of an \$8,000,000 program authorized by Foundation officials to help an estimated 1,000 students, the equivalent of about one-third of the total number of present engineering teachers who have acquired their doctorates.

Qualified students will be eligible for loans to a total of \$10,000 over a three-year period and the loans will be forgiven at fixed rates for every year of service on an American or Canadian engineering faculty.

Penn State was one of 42 colleges and universities authorized grants ranging from \$25,000 to \$100,000.

Fellowships —

(Continued from page one)

of these fellowships are open to any outstanding student who has completed at least 30 semester-equivalent credits of graduate work prior to September and is working for the doctorate. One of these fellowships, provided through a gift from the Woodrow Wilson Foundation, is restricted to a terminal-year doctoral student who is definitely planning to enter college or university teaching as his career.

These fellowships provide a tax-free stipend of \$2000 for the fall, winter, and spring terms, plus a grant-in-aid to cover all tuition for the three terms. They are awarded in any area, although some preference is given to areas where other types of aid are less prevalent.

An additional part of the application materials this year is the requirement of a recent Miller Analogies graduate scholastic aptitude test score. The test will be given locally on Saturday, February 24. Time and place are announced on an information sheet and admission form, given applicants. Application forms for the fellowships and further information may be obtained at the Graduate School Office, 101 Willard Building.

• • • • •

The attention of department heads and advanced graduate students is called to the International Business Machines Corporation Fellowship at the University for three terms, beginning with the Fall of 1962. This fellowship is open to a doctoral candidate in electrical engineering or chemical engineering, with no restriction on thesis subject; or it is also open to any outstanding student in other fields, whose research problem is especially suited to analysis or treatment with a digital computer.

The fellowship provides a stipend of \$1800 for a single student or a married student with no children; \$2500 for a married student with children. The Corporation pays the recipient's tuition for the three terms.

Departments wishing to sponsor one or two strong candidates for the award should give them each a brief note of approval to present at the Graduate School Office, to receive application materials. The deadline for filing all application materials is March 1 at the Graduate School Office. The application requires a recent Miller Analogies graduate scholastic aptitude test score. The test will be given locally on Saturday, February 24. Time and place are announced on an information sheet and admission form, given applicants.

Personnel matters

Dr. M. Nelson McGeary, professor of political science, has been granted a leave of absence from March 26 to Sept. 1 to serve as assistant to U. S. Sen. Hugh Scott.

Dr. Harold E. Dickson, professor of history of art and architecture, is on half-time leave during the current winter term and will be on full-time leave for the spring term to work on his book on George Gray Barnard.

Dr. Charles L. Fergus, professor of botany and plant pathology, will be on leave from July 1 to Dec. 31 to do research at the E. Hauser Champignon Laboratories, Gossau-Zurich, Switzerland, on the nutrition of some of the edible mushroom types of fungi.

CALENDAR

Friday, Feb. 9

Sigma Xi lecture, 7 p.m., Mineral Industries Auditorium. Dr. Philip Walker, Jr., chairman of the division of mineral technology, on "Carbon — An Old but New Material."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Sydney P. Clark, Jr., geophysicist, Carnegie Institute, Washington, D.C., on "Physical and Chemical Limitations on Temperatures in the Earth's Crust and Outer Mantle."

Center Stage production of "Five Finger Exercise," by Peter Shaffer, 8 p.m.

Players production of "Witness for the Prosecution," by Agatha Christie, 8 p.m., Schwab Auditorium.

Saturday, Feb. 10

Centennial Dinner, 6 p.m., HUB ballroom. Dr. David Dodds Henry, president, University of Illinois, principal speaker.

Varsity wrestling, vs. V.P.I., 8:30 p.m.; varsity fencing, vs. Syracuse, 3 p.m., Rec Hall.

Cosmopolitan Club annual banquet, 6 p.m., Presbyterian Church.

Players production of "Witness for the Prosecution," by Agatha Christie, 8 p.m., Schwab Auditorium.

Sunday, Feb. 11

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Arthur Seyda.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Jewish and Christian Service, with Rabbi Norman T. Goldberg, director of Penn State Hillel Foundation, on "Image of the Jew," with Cantor Judah Smith, Congregation B'rith Emeth, Cleveland, for Hebrew liturgy.

University Lecture Series, 3 p.m., Schwab Auditorium. Luther H. Hodges, Secretary of Commerce. (Note change of time.)

Hillel Foundation Cultural Film Series, 8 p.m., "Albert Schweitzer," full-length biography.

Monday, Feb. 12

Annual Brotherhood Banquet, 6 p.m., HUB ballroom. Dr. Benjamin Mays, president of Morehouse College, on "Brotherhood Across Race and Culture."

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. Panharinath Prabhu, visiting professor of psychology, on "Goa from an Indian Viewpoint."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. K. D. Pae, on "The Inclusion of Hydrostatic Stresses in Yield Conditions and Application."

Tuesday, Feb. 13

College of Home Economics Faculty Meeting, 3:55 p.m., Room 209 Home Ec South.

Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. J. H. Westbrook, General Electric Research Laboratories, Schenectady, on "Research in High Temperature Materials in the U.S.S.R."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Chadwick Hansen, on "Going to the Territory: The Ending of Huckleberry Finn."

Wednesday, Feb. 14

History Round Table, 7:30 p.m., Chapel Lounge. Dr. Stanley I. Kutler, instructor of history, on "Judicial Supremacy in the U.S."

Phi Lambda Upsilon lecture, 7:30 p.m., Room 214 Boucke. Dr. Henry A. Finch, professor of philosophy, on "Can Scientists Learn from Artists?"

Biological Sciences Lecture Series film, 10:55 a.m., Room 112 Buckhout. "Nutrition — the Chemistry of Life" with Jean Mayer, Harvard School of Public Health.

Psi Chi Colloquium, 12 noon, HUB dining room "A". Dr. Lowell Schipper, assistant professor of psychology, on "Psychological Warfare and Decision Making."

Psychology Colloquium, 8 p.m., Room 112 Buckhout. Dr. Ronald Taft, University of Western Australia. on "An Analysis of Clinical Inference."

Meteorology Seminar, 3:55 p.m., Room 308 Willard. John Pohle, on "Fog Stratus Fluctuations at Vandenburg Air Force Base."

Thursday, Feb. 15

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Truman O. Woodruff, General Electric Co., on "Sound Absorption in Insulating Crystals and in Superfluid Helium below 0.5 deg. K."

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Martin Stiles, University of Michigan.

International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. "La Strada."

Friday, Feb. 16

Penn State Singers concert, 8 p.m., HUB Assembly Room.

American Chemical Society meeting, 8 p.m., Room 111 Boucke. Dr. Charles G. Overberger, Brooklyn Polytechnic Institute, on "Some Aspects of Ionic Polymerization."

Psi Chi Colloquium, 8 p.m., Room 112 Buckhout. Dr. Owen H. Sauerlender, on "Personal Utility and Subjective Probability."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Takeshi Nagata, University of Pittsburgh, on "Magnetism of Rocks and Minerals."

Television listings

(for week of Feb. 12, WFBG-TV, Altoona)

Folio 15

9-9:15 a.m.

Monday — Milton S. Osborne, head, department of architecture, on "Where Lincoln Left them Speechless."

Tuesday — Herbert A. Whitney, assistant professor of geography, on "The Geography of Conflict: the Indo-Chinese Border."

Wednesday — Edward A. Thaden, associate professor of history, on "Moscow vs. Peiping;" Robert Reifsnider, associate professor of theatre arts, on "The Broadway Season."

Thursday — James W. Markham, professor of journalism, on "Are we Really Well-Informed."

Friday — Thomas F. Magner, professor of Russian, on "English Isn't Spoken Here."

NEWS IN BRIEF

➤ **WRESTLING:** Tickets for the Eastern Intercollegiate Wrestling Association championships on campus March 9 and 10 are now on sale at Room 249 Rec Hall.

➤ **EXHIBIT:** An exhibit titled "Graphic Design" prepared by the International Business Machines Co. and sponsored by the department of art and the School of the Arts will continue on display at the Hetzel Union Building until Feb. 19.

Items of Interest

Articles and Papers

At the annual meeting of the American Association for the Advancement of Science at Denver, papers by the following: FINCH, H. A. philosophy, on "Theoretical Fruitfulness as a Measure of Concepts." ROY, RUSTUM, geochemistry, with Short, J. M., on the influence of various crystal defects on diffusion in ionic solids. FOWLER, H. S., nature and science education, on new materials for teaching biology. SCHEIN M. W., animal behavior, on the hallucinatory behavior of chickens.

At the Speech Association of America meeting Dec. 27-30, papers by the following: OLIVER, R. T., on "The Speaking of Syngman Rhee;" CARTER, E. S., on "General Semantics Place in Speech;" WHITE, E. E., on "Solomon Stoddard's Theories of Persuasion;" ZELKO, H. P., on "Reply from an Author;" and HOLTZMAN, P. D., on "Courses in the Psychological Basis of Speech."

ALMIQUIST, J. O., dairy physiology, with R. P. Anann, articles in the August and September issue of the *Journal of Dairy Science* on the "Reproductive Capacity of Dairy Bulls."

ANTHONY, ADAM, zoology, with Strickland, E. H., and Ziegler, F. D., an article on "Oxygen Electrode for Measurement of Tissue Slice Respiration" reprinted from the Sept. 2 issue of *Nature*.

ARNOLD, C. K., President's office, an article titled "The Writing of Abstracts" in the Dec. issue of *IRE Transactions on Engineering Writing and Speech*.

BRITTON, J. H., child development and family relationships, Mather, W. G., sociology and anthropology, with Lansing, Alice K., an article in the December issue of *Geriatrics*, on "Expectations for Older Persons in a Rural Community: Work and Retirement."

BYRNES, W. R., forestry, and Kardos, L. T., agronomy, a paper titled "Hydrologic Characteristics of Three Soils Supporting Natural Hardwoods, Planted Red Pine, and Old Field Plant Communities" at the annual meeting of the Soil Science Society of America.

DECKER, W. S., and Kniffin, F. W., commerce and management, a paper on "The Teaching of Undergraduate Sales Management Courses" at the annual meetings of the American Marketing Association.

DUNNE, H. W., veterinary science, and Kradel, D. C., and Doty, R. B., an article, "Bordetella Bronchiseptica (Brucella Bronchiseptica) in Pneumonia of Young Pigs" in the Oct. 15 issue of the *Journal of the American Veterinary Medical Association*.

FLETCHER, P. W., forestry, with Lull, H. W., U.S. Forest Service, a paper on "Comparative Influence of Hardwood Trees, Litter, and a Bare Area on Soil-Moisture Regimen."

FORTMAN, H. R., Agricultural Experiment Station, with Keen Buss, A. S. Hazzard, and A. D. Bradford, a paper on "The Relation of Feeding before Stocking to Catchability of Trout" in the October issue of *The Journal of Wildlife Management*.

HARNETT, A. L., physical education, an article on "Health Education in Secondary Schools" in the November issue of *Education*.

HICKS, R. L., advertising, an article, "Wanted: All-American Boy for Newspapers' Ad Staff" in *Editor and Publisher*.

KAUFMAN, J. J., economist, a paper on "Logic and Meaning of Work Rules on the Railroads" at the annual meetings of the Industrial Relations Research Association in New York.

KUSPIR, D. B., philosophy, an article, "Whitehead on Divinity" in the *Archiv fuer Philosophie*, Band 11:1-2, pp 66-172. Also in book form, published by W. Kohlhammer Verlag, Stuttgart, Germany.

MACKENZIE, OSSIAN, Business Administration, an article in the current issue of *College News and Views* concerning the accounting curriculum.

MARKHAM, J. W., journalism, an article titled "Effects of 'The Thaw' on the Soviet Press," in the *Journalism Quarterly*.

MOORE, J. H., civil engineering, a paper titled "Laboratory Studies of Progressive Bond Failure in Continuously Reinforced Concrete Slabs," at the annual meeting of the Highway Research Board in Washington.

MUELLER, E. W., physics, with Young, R. D., a paper on "Determination of Field Strength for Field Evaporation and Ionization," in the Nov. issue of the *Journal of Applied Physics*, 32, 2425, 1961.

PRYBYLA, J. S., economics, an article "Private Enterprise in the Soviet Union," in the September issue of *The South African Journal of Economics*.

—an article, "L'entreprise Privée en Pologne de 1946 a 1961" in the December issue of *Revue Economique et Sociale*, University of Lausanne, Switzerland.

PRYBYLA, J. S., economics, an article on "Eigentum in der Kommunistischen Gesellschaftsordnung" in the German journal, *Osteuropa*, Nov.-Dec. issue.

REISER, MARTIN, psychology at Ogontz, an article on vocational rehabilitation in the current issue of the British journal, *Rehabilitation*.

ROSE, ARTHUR, chemical engineering, with Sweeney, R. F., a paper on "Prediction of Vapor-Liquid Equilibria using a Theory of Liquid Mixtures," at the National Meeting of the American Institute of Chemical Engineers.

SMITH, W. P., economics, an article titled "An Alternative Exposition of the Factor Price Equalization Theorem," in the August issue of the *Quarterly Journal of Economics*.

TAYLOR, H. P., geochemistry, with Samuel Epstein, Cal. Tech, a paper on the oxygen isotopes of tektites at the national meeting of the American Geophysical Union in Los Angeles.

WILLOWER, D. J., education, an article titled "Values and Educational Administration" in the *Peabody Journal of Education*.

Lectures and Talks

BEASLEY, K. E., political science, an address on "Academic Freedom" before the 98th convention of the Kansas State Teachers Association in Topeka.

BLUE, F. L., JR., civil engineering, a talk on the Moosic model at a meeting of the Hydraulics and Sanitary Division, Central Pennsylvania section, American Society of Civil Engineers.

DEVINNEY, R. N., English at Allentown, a panelist on the topic "How Can we Work Together to Improve the Teaching of Communication Skills" at the Penna. State Education Association Convention in Harrisburg Dec. 29.

DUBIN, S. S., Continuing Education, an address on "Applying the Behavioral Sciences to an Environmental Program" at the annual convention of the National Association of Sanitarians.

GOODWIN, H. E., journalism, panelist at the meeting of the New England Society of Newspaper Editors, on "Education for Journalism."

HOWELL, B. F. JR., geophysics and geochemistry, lectures at the University of Western Ontario on "Absorption of Seismic Waves" and "Origin of the Continents."

JORDAN, JOSEPH, chemistry, on leave in Switzerland, a lecture at the Electrochemical and Metallurgical Institute of the University of Milan on "Electrode Kinetics by Hydrodynamic Voltammetry," and a seminar talk at the University of Padova, Italy, on "Identification of Active Electrode Sites of Radiotracer Techniques."

MUELLER, E. W., physics, a lecture on "Field Ion Microscopy of Crystal Defects," before the Metallurgy Department at Columbia University.

—seminar lecture at Columbia University on "Recent Work on the Structure of Metal Surfaces Investigated by Field Ion Microscopy."

NIEBEL, B. W., industrial engineering, a talk on "Evaluating Performance and Effectiveness of People in Indirect and Expense Areas," before the Susquehanna Valley Chapter of the American Institute of Industrial Engineers in Berwick.

OLIVER, R. T., speech, a talk titled "American Foreign Policy in the Midst of the World Revolution" at the annual convention of the Pennsylvania Nurses Association, and reprinted in "Vital Speeches of the Day," December issue.

SHAW, M. D., agricultural engineering, a talk at Elmira (N.Y.) College on "The Scientist and his Social Responsibility."

SPICER, T. S., mineral preparation engineering, a talk on "Coal Characteristics and their Relationship to Combustion Techniques" at a technical workshop for industrial coal salesmen at Monroeville.

Elected and Appointed

COOGAN, J. H., public information, appointed to the new national advisory board of Angel Flight, affiliate of the U.S. Air Force.

DAVIDSON, H. M., educational research, elected vice-president of the Research Round Table of the Pennsylvania State Education Association.

FROKE, M. D., journalism, elected executive secretary of a new organization, the Pennsylvania News Broadcasters Association.

MILLER, E. W., geography, elected president of the Pennsylvania Council for Geography Education for 1962.

—appointed associate editor of the *Journal of Geography*, official journal of the National Council for Geographic Education.

PENDERED, N. C., industrial education, appointed to a state-wide committee to study current problems in industrial arts education.

REINA, G. A., DuBois engineering, named associate consultant to Highways of the World, Inc., a new organization to help plan highway construction throughout the world.

SHAW, M. D., agricultural engineering, elected treasurer of the Society for Social Responsibility in Science.

SOMMERFIELD, EDNA, Home Economics, elected secretary of the Council of National Organizations for Adult Education.

WILLIAMSON, M. A., Engineering and Architecture, named chairman of the Board of Trustees of the Institute for the Certification of Engineering Technicians.

ZELKO, H. P., speech, appointed consultant on training and staff development for the Area Redevelopment Administration, U.S. Dept. of Commerce, Washington, D.C.

Publications

NIELSEN, R. F., petroleum and natural gas engineering, a chapter in the *Petroleum Production Handbook*, published by McGraw-Hill, titled "Reservoir Performance Equations."

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Shell Fellowship Committee	varied	Renewal — support of an academic year fellowship in department of chemistry.	Thomas Wartik
ibid.	varied	Renewal — support of an academic year fellowship in department of chemical engineering.	M. R. Fenske
U. S. Air Force	\$125,000	Renewal — research on fluids, lubricants, and related materials for aeronautical and astronautical applications.	E. E. Klaus
Penna. Natural Gas	3,200	Renewal — Natural Gas Fellowship.	C. D. Stahl
Peabody Coal Co.	4,000	Renewal — Peabody Blasting Research Grant.	B. J. Kochanowsky
Prismo Safety Corp.	1,000	Gift to support research in glass sciences and technology.	Guy Rindone
E. I. DuPont de Nemours	5,000	Grant for fundamental research in chemistry.	Thomas Wartik
ibid.	2,500	Grant for fundamental research in mechanical engineering.	M. S. Gjesdahl
ibid.	2,500	Grant for fundamental research in engineering mechanics.	Joseph Marin
ibid.	1,700	Renewal — post graduate teaching award in chemistry.	Thomas Wartik
Cooperative GLF Exchange, Inc.	3,600	Renewal — support of corn breeding research.	W. I. Thomas
Owens-Illinois Glass Co.	16,000	New — support research and graduate training in glass science and technology.	Guy Rindone
Penna. Crude Oil Assoc., Oil City	20,000	Renewal — support of Pa. Grade region for the refining research program.	M. R. Fenske, Rodney Hersh
American Chemical Society	50,000	Unrestricted research grant in petroleum field.	R. W. Taft
Western Electric Co., Inc.	325	Equipment grant for Unitron metallurgical microscope.	Joseph Marin
Rohm and Haas Co.	5,000	Gift to support research on oil additives.	M. R. Fenske
NIH Public Health Service	3,500	To abstract proceedings of the N.I.M.H. Conferences on "Social and Physical Environmental Variables as Determinants of Mental Health."	B. C. Bloomfield
Dept. of Health, Education, Welfare	48,994	New — For Counseling and Guidance Training Institute, 1962-63.	G. R. Hudson
U. S. Air Force	30,137	New — "The Effect of Experimental Conditions on the Mechanism of Fatigue."	M. A. Wilkov
American Petroleum Institute	45,000	New — Prepare a technical data book for petroleum technologists.	M. R. Fenske
Office of Naval Research	1,732	Donation of equipment for geochemistry research.	Rustum Roy
Office of Naval Research	269	Equipment for zoology and entomology research.	B. G. Anderson
Office of Naval Research	8,787	Equipment for research in physics.	E. W. Mueller
Office of Naval Research	90	Equipment for research in chemistry.	J. R. Lotz
Office of Naval Research	3,304	Equipment for research in physics.	D. H. Rank
Office of Naval Research	5,545	Equipment for research in chemistry.	R. W. Taft

faculty BULLETIN

Vol. 49, No. 28

Feb. 9, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Statement—

The President's Office today issued this statement regarding its general philosophy on tuition, fees, and other student charges:

FROM time to time, questions have arisen concerning the philosophy of The Pennsylvania State University concerning charges made to students for tuition and other expenses.

The Commonwealth of Pennsylvania benefits from having its citizens highly educated, hence it is proper for the Commonwealth to provide higher education facilities. This is in keeping with the "land-grant" concept that charges to students shall be as low as possible, consonant with the maintenance of proper educational standards. At the same time, the University also accepts the philosophy that students should help bear the necessary costs of the specific services from which they benefit directly, but should not bear the expenses of any of those services of the University which are not of direct benefit to them.

Accordingly, the tuition charges are set at the figures necessary to make up the difference between the direct instructional and other general service costs and the funds that are available from other sources to cover such costs.

Charges for such services as room and board and student counseling are set at the minimum figure necessary to cover the costs. Each student is charged only for those services from which he directly benefits. For example, the application fee is charged to all students who apply. The counseling fee is charged to all freshmen

(Continued on page two)

NEWS IN BRIEF

► **COMPUTORS:** The University is believed to be the first university to sponsor a home-study program in the basic principles of electronic computer programming. In cooperation with the International Business Machines Corporation, the course will be given because the extension of electronic data processing into virtually all areas of business, industry, government, education, and science has resulted in a distinct need for wider understanding of programming principles.

► **HILLEL:** A group of five dancers, known as AVIV, will present a program of Biblical, Oriental, Hasidic, and modern Israeli dances and folk-songs Saturday, March 2, at 8:15 p.m. at Hillel Foundation. Admission charge is \$1 for Hillel student members and \$1.50 for non-members.

► **RELIGION:** All faculty members and graduate students are invited to attend 1962 Faculty Christian Fellowship Conference in the Middle Atlantic Region Saturday and Sunday, March 3-4, with the University Christian Association as host. Sessions will be held in The Chapel and Hub. Main speaker will be Dr. Kyle Haselden, managing editor of *The Christian Century*. Subject of the Conference is "Religion and the Common Good."

► **GREETERS:** The Penn State Greeters will hold a buffet supper Sunday, Feb. 18, in the Maple Room of the Home Economics Cafeteria, 4:30-6:30 p.m., featuring Swedish meat balls, baked glazed ham, and scallops Newburg. Tickets at \$1.75 may be obtained in Room 4, Home Economics, or at the cafeteria door.

► **JOBS:** The number of students seeking part-time work now exceeds the number of jobs available by a 4-1 ratio. Since September, the number of students applying for part-time work at the Office of Student Aid, 218 Willard, 5-6301, has been 1773 and the number of jobs available only 1712. Faculty members having part-time jobs are urged to consider students, whose interests and experience vary widely. Babysitting, clerical work, general labor, and technical jobs are of widest appeal; going rate is \$1 to \$1.25 per hour, but babysitting pays 50 cents per hour.

► **PARKING:** No parking will be permitted between 2 a.m. and 6 a.m. in Areas 1, 5, 17, 30, 32, 40, and 71, in order that snow may be removed during the winter months. Signs have been placed in the areas to indicate the regulation.

► **DRAWING:** A pen and ink drawing titled "Nauset Light," by George Pappas, associate professor of art and art education, is to be among many works to be circulated nationally by the American Federation of Art beginning in September. The painting, which is an abstract of a famous Cape Cod landmark, was recently awarded a purchase prize by the St. Paul Gallery and School of Art, St. Paul, Minn., and is now a part of its permanent collection.

► **ALTOONA:** A pool and fountain for a garden court at the Altoona Campus will be constructed from funds contributed by friends of the late Mrs. Edith Walton Buzzard in her memory. Final plans for the construction have been approved by the Board of Trustees. Mrs. Buzzard, who died Oct. 15, 1958, was for many years interested in the activities of young people in Altoona and at the Altoona Campus.

► **TO EUROPE:** A few seats are available on the plane which will take 70 students to Europe in the Study Abroad Program and members of the faculty and staff, or of their families, are eligible to take advantage of the low cost transportation. The plane, a Pan-Am DC-7C, will leave Idlewild Airport March 26 and arrive in Strasbourg, France, and Cologne, Germany, the next day. Contact the Study Abroad Program office, Room 4 Sparks, UN 5-5334.

► **PUGH:** A copy of a photograph of Evan Pugh, taken when he was 28 years old, three years before he became president of Penn State, has been added to the Penn State Collection. The original photo is in the possession of the Chester County Historical Society. Pugh was born in Chester County and conducted a boys' academy at his home before going abroad to study.

► **ARGENTINA:** Four members of the College of Agriculture staff left this week for Argentina to aid in the development of a research program for improvement of apple and pear production.

Dr. Russell E. Larson, now director of Agricultural Extension Service and former head of the department of horticulture; Chester W. Hitz, professor of pomology; Carlton F. Taylor, professor of plant pathology extension; and C. Marshall Ritter, associate professor of pomology, are making the trip under the auspices of the Rockefeller Foundation. The team will be there four or five weeks.

CALENDAR

Friday, Feb. 16

Penn State Singers concert, 8 p.m., HUB Assembly Room.

American Chemical Society meeting, 8 p.m., Room 111 Boucke. Dr. Charles G. Overberger, Brooklyn Polytechnic Institute, on "Some Aspects of Ionic Polymerization."

Psi Chi Colloquium, 8 p.m., Room 112 Buckhout. Dr. Owen H. Sauerlender, on "Personal Utility and Subjective Probability."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Takeshi Nagata, University of Pittsburgh, on "Magnetism of Rocks and Minerals."

Biological Science Lecture, 4 p.m., Room 112 Buckhout. Dr. Charles R. Dawson, professor of chemistry, Columbia University, on "Ascorbic Acid Oxidase."

Saturday, Feb. 17

Lecture by Eric Sevareid, CBS news commentator, 8:30 p.m., Schwab Auditorium. University Lecture Series.

Players production of "Five Finger Exercise," 8 p.m., Center Stage.

Varsity gymnastics, vs. Syracuse, 3 p.m.; wrestling, vs. Syracuse, 7 p.m.; basketball, vs. Army, 9:15 p.m.

Sunday, Feb 18

Protestant Service of Worship, 9 a.m., The Chapel. Rev. Richard Nutt.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Richard Shaull, vice president, Instituto MacKenzie, Sao Paulo, Brazil.

Reception marking opening of exhibition of recent drawings, watercolors, sculpture, and oils by George S. Zoretich, 4-6 p.m., HUB lounge.

Monday, Feb. 19

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Mrs. Rebecca Doerner, administrative assistant for International Student Affairs, on "Case Studies in International Student Relations."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. S. C. Cowin, on "Continuum Theory of Dislocation."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Tape-recorded lecture on "Color Photography at Night."

Lecture-demonstration by watercolorist Chen Chi, 2:15 p.m., HUB ball room.

Tuesday, Feb. 20

Electrical Engineering Seminar, 4 p.m., Room 207 Electrical Engineering. Donald Jewark, Sylvania Electronics Products Co., on "Microwave Magnetrans."

Talk on Land-Grant Frescoes, by Dr. Harold E. Dickson, 7:30 p.m., HUB Assembly Room, followed by University film on same subject.

Wednesday, Feb. 21

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. Alan Simpson, dean of the College, University of Chicago, on "Reconstructing a Tudor Success Story: The Career of Nicholas Bacon."

Biological Sciences Lecture Series auxiliary film series, 11:10 a.m., Room 112 Buckhout. "Fine Structure and Pattern of Living Things" by Paul Weiss, Rockefeller Institute.

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Wayne McCollom, on "Persistent Trend Forecasting."

Penn State Chess Club, 7 p.m., HUB card room.

Thursday, Feb. 22

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. A. Mookerjee, on "Application of Statistical Methods in Equipment Analysis."

International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. "World of Apu." Tickets at HUB desk, 50 cents.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. R. A. Bernheim, on "Chemical Effects in Optical Pumping."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. A. Isihara, Brooklyn Polytechnic Institute, on "Self Consistent Plasma Dynamics and the Self Energy of the Classical Point Electron."

Penn State Thespian Show, 8 p.m., Schwab Auditorium. Broadway musical, "The Bells Are Ringing." Tickets at HUB desk beginning Feb. 19.

Meditation Chapel Choir Choral Program, The Chapel, 4 p.m.

Friday, Feb. 23

Penn State Thespian Show, 8 p.m., Schwab Auditorium. Broadway musical, "The Bells are Ringing." Tickets at HUB desk.

Players production of "Five Finger Exercise," 8 p.m., Center Stage.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Bela Karlovitz, Combustion and Explosive Research, Inc., on "Electrically Augmented High Temperature Flames."

Television listings

(For week of Feb. 19, WFBG-TV, Altoona)

Folio 15

9 - 9:15 a.m.

Monday — James P. Jimirro, faculty advisor to the Thespians, on "The Bells are Ringing."

Tuesday — Dr. Philip S. Klein, professor of American history, on "James Buchanan," and Dr. Monroe Newman, head of the department of economics, on "Great Untouchable: The U.S. Public."

Wednesday — Dr. Ervin P. Hexner, assistant dean for research, College of Business, on "The European Common Market."

Thursday — Dr. Thorsten V. Kalijarvi, visiting professor of political science, on "The Organization of American States."

Friday — Dr. B. F. Howell, Jr., head of the department of geophysics and geochemistry, on "Underground Nuclear Testing."

Sevareid

The noted Columbia Broadcasting System news analyst, Eric Sevareid, will speak on "The Shape of Things to Come" in the next University Lecture Series presentation Saturday, Feb. 17, at 8:30 p.m. in Schwab Auditorium.

Tickets for the lecture are on sale now at the HUB desk.

Considered one of the most thoughtful world affairs speakers in the United States, Sevareid was for many years CBS' chief Washington correspondent.

Books

Dr. Eugene T. McDonald, professor of speech and speech education, "Understand Those Feelings," published by Stanwix House, Inc., Pittsburgh. To serve as a guide for parents and handicapped children and for those who counsel them.

Survey at Ogontz

A survey of faculty members at the Ogontz Campus at the conclusion of the Fall Term gave the following results concerning the term system, longer classes, etc.:

75-minute class — most felt longer period superior to 50-minute.

Multiple periods — for laboratory classes, most felt 170 minutes was acceptable but required changes in curricular and course organization.

Class breaks — most favor the 20-minute break; those dissenting felt 15 minutes more practical; none wanted to return to 10 minutes. Those in favor of 20-minute break felt it permitted increased opportunity for informal extra-class contact with students and gave both student and faculty member a needed "breather" between classes.

Examinations — Generally it was felt that more time was needed for each final exam, preferably two hours or more, and that students should not take more than two finals in one day.

Student response — most faculty members felt the system was "wonderful for the faculty" but uncertain about its effect on the student. Instructors in elementary languages and mathematics generally agreed the pressure on the students was most effective. Some literature instructors concluded such pressure was not desirable. Science and history teachers were equally divided on the desirability of increased pressure.

Thespians

A Broadway musical by Comden and Green with music by Jule Styne. "The Bells are Ringing," will be the production of the Penn State Thespians Thursday, Friday, and Saturday, Feb. 22-24, in Schwab Auditorium. Evening performances at 8 p.m. will be given all three days and a matinee at 2 p.m. is scheduled for Saturday. The show concerns a young lady who works for a telephone answering service and who falls in love with one of the clients. Tickets will be available at the HUB desk starting Feb. 19.

Statement —

(Continued from page one)

who enroll. The room and board charges include the cost of supervising the residence halls, and is charged only to those students who reside in them.

It is also the policy of the University to keep the costs to the students as low as possible through efficient management, through active campaigns both for gifts to establish scholarships and loan funds, and for increased legislative support of the University.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Public Health Service	\$ 500	Ibogamine and NMR Studies of other natural products — new	Maurice Shamma
ibid.	14,847	Stylistic determinants in Clynical Personality Assessment	D. N. Jackson
ibid.	19,959	Generalization gradients for competing responses — renewal	H. S. Hoffman
Socony Mobil Oil	3,000	Research in Fuel Technology — new	P. L. Walker
U.S. Army Ordnance	15,000	Analytical Model of transient missile behavior by means of electrical network analogies	Carl Volz
Penna. Grade Crude	5,000	Fellowship in petroleum and natural gas engineering — renewal	C. D. Stahl
National Science Foundation	2,000	Summer Science Training program for secondary school students — new	R. D. Schein
ibid.	30,000	Solubilities of ore minerals — new	H. L. Barnes
ibid.	25,000	Study of Region F Processes — new	E. R. Schmerling
ibid.	1,700	Conference on Crystal Synthesis and Structure in Solid State Research — new	Rustum Roy
ibid.	7,245	Undergraduate Science Education Program — new	H. J. Read
ibid.	7,640	Undergraduate Science Education Program — new	Walter Goldberg
ibid.	1,150	Undergraduate Science Education Program — new	W. O. Williamson

Graduate lecture

Dr. Alan Simpson, dean of the College of the University of Chicago, will speak on "Reconstructing a Tudor Success Story; the Career of Nicholas Bacon." Wednesday, Feb. 21, at 8 p.m. in Room 121 Sparks, sponsored by the departments of history and English, in the Graduate Lecture Series.

British-born and educated, Dr. Simpson taught at the University of St. Andrews, Scotland, both before and after the war and in 1946 was named assistant professor of social sciences at the University of Chicago. He joined the history department in 1948 and was appointed to his present position in 1959.

His books include "Puritanism in Old and New England," "The Gentry 1540-1660: East Anglican Studies," and "The Estates of Nicholas Bacon, 1540-1580."

Honored

President Eric A. Walker will receive the 1962 Golden Omega Award provided by the Electrical Insulation Conference at the Conference's Unity of Action Banquet Feb. 21 in Washington, D.C.

Previous winners of the award were Admiral Hyman G. Rickover and Dr. Mervin Kelly, president of Bell Laboratories. The award is given for significant contributions to scientific and engineering progress.

The Conference is co-sponsored by the American Institute of Electrical Engineers and the National Electrical Manufacturers Association.

Singers

The Penn State Singers, directed by Raymond Brown, associate professor of music, will present its annual concert this evening (Friday) in the HUB Assembly Room at 8 p.m. The program will include not only vocal presentations by the 20-voice group but also instrumental music by the brass quartet and two numbers by Dr. Leonard Raver, Chapel Organist, on the harpsichord. A Bach Cantata for contralto, strings, harpsichord, and bells will also be done.

Works by Thomas Morley, Richard Edwards, Martin Peerson, Thomas Weelkes, Henry Purcell, Thomas Arne, Orlando di Lasso, Josquin des Pres, Samuel Barber, and Bach will be performed.

Art events

Three events of interest in the arts will occur within the next few days.

Sunday, Feb. 18, an exhibition of the recent drawings, watercolors, sculpture, and oils by George S. Zoretich, associate professor of art, will open in the HUB gallery. A reception marking the opening will be held from 4 to 6 p.m. in the lounge.

Monday, Feb. 19, the noted watercolorist Chen Chi, will visit the campus and give a lecture-demonstration at 2:15 p.m. in the HUB ballroom.

Tuesday, Feb. 20, Dr. Harold E. Dickson, professor of art and architectural history, will talk on the Land-Grant Frescoes at 7:30 p.m. in the HUB assembly room. The University's film on the frescoes will be shown following the talk.

Atomic energy

The University Press will publish March 30 the 816-page volume, "The New World, 1939/1946," first of a series of books authorized by the Atomic Energy Commission and authored by historians Richard G. Hewlett and Oscar E. Anderson, Jr.

To obtain this first complete history of the nation's atomic energy program, the authors were allowed for almost five years unrestricted access to the files of the Atomic Energy Commission and its field installations, the Army, the Office of Scientific Research and Development, the State Department, the Bureau of the Budget, and the Senate Special Committee on Atomic Energy.

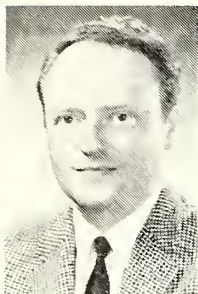
The book traces developments in atomic energy from the first discoveries of the nature of atomic fission through the tests of the atomic bomb and the discussions in the White House, the Pentagon, and the UN on the problems of control and the ways atomic power is making a new world.

Lelyveld talk

Rabbi Arthur J. Lelyveld, of the Fairmount Temple, Cleveland, Ohio, will present the second University Lecture in Religion Sunday, Feb. 25, at 8 p.m. in Room 121 Sparks. The lecture is one of a series on "Religion and the Common Good," sponsored by the Committee on Inter-Religious Affairs.

Before assuming his present position in 1959, Rabbi Lelyveld was National Director of the B'nai Brith Hillel Foundations.

Wilkes-Barre Center



G. W. Bierly

THE first associate degree candidates matriculated at the Wilkes-Barre Center in 1953 and two years later a class of 54 students graduated, all of them from nearby communities.

Many of these graduates have remained in the Wyoming Valley to work in the expanding industrial complex of the area and have thereby proved the wisdom of developing this type of program in Wilkes-Barre.

In the years to come, the Center, and probably others like it in the State, will be undoubtedly overwhelmed with applications as the ever-growing body of high school graduates learns more and more of the job opportunities offered to

associate degree graduates in technical fields.

Since 1953, the Center has offered work in drafting and design technology and also in electrical technology. Four years ago the program in surveying technology was added and the Center is even now the only institution offering such work in the Commonwealth.

Today there are 175 students at the Center, 25 of whom are taking surveying technology. The male-to-female ratio is 174-1, but there have been other coeds in the past; one such woman is now a designer in a heavy industry in the area.

These associate degree programs are, in a sense, offspring of evening engineering courses taught at Wilkes-Barre by Penn State faculty members as early as 1916. During World War II, one of the largest educational war-training programs in the State was carried on in evening classes at the Center. As a result of local demand, the one-year full-time day program was initiated in 1947 and six years later the two-year associate degree curriculum was offered.

The Center at Wilkes-Barre fills a distinct need in the area. The city has a population of 60,000 but it is surrounded by 60 political subdivisions which combine to give the Greater Wilkes-Barre area a total population of 250,000. Wilkes College, a private, nonsectarian school, and Kings College, private sectarian institution, are both liberal arts colleges. Technical education in the area is left to the Penn State Center.

The Wyoming Valley in which the Center is located has had a long history tied to the anthracite coal industry. The boom days attracted tens of thousands of immigrants. Italian, Irish, Polish, and Russian, and the present population is made up of second and third generation families of these nationalities. Higher education has taken on a vital meaning to these people, who have experienced the decline of their principal livelihood. Efforts to revitalize the area have been partially successful; Crestwood Industrial Park, on nearby Mountaintop, has attracted Eberhard Faber, King Fifth



Wheel, Foster-Wheeler, and Radio Corporation of America, all companies which have need for technically-trained men.

The Center is located in a four-story brick building, one mile from the city's public square. Although the building is from the era of the early 1900s, it is structurally excellent and interior remodeling has done much to improve it functionally. There is no lack of classroom space. The students, with their own time and money, have developed a lounge-recreation room in the south wing.

Student organization at the Center is good, and student activities — athletics, chess, photography, radio, newspaper, and yearbook — have helped to foster a strong Penn State spirit. Until recently the student body has been all-male; in the Fall Term, one woman student began studies in drafting and design technology.

The faculty is headed by George W. Bierly, native of the area and graduate of Bucknell Junior College and Massachusetts Institute of Technology. He has been a member of the staff since 1947 and began administrative work at the Center in 1949. The eleven-man, full-time faculty has educational experience ranging from 1 to 15 years and five have achieved professional engineering status. Degrees have been obtained from Lehigh, M. I. T., Penn State, N. Y. U., University of Pennsylvania, and University of Florida.

The Center cooperates with both Wilkes and King's in a variety of programs and at times has exchanged faculty members, but the three schools serve quite different purposes in the Wyoming Valley educational pattern; there is a place for each.

Robert H. Sanford, Continuing Education district administrator, has his office at the Center, although his area extends from near Hazleton to the New York State border. Evening classes at the Center continue to serve Wilkes-Barre well, just as they did 45 years ago.

faculty BULLETIN

Vol. 49, No. 29

Feb. 16, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T. I. MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

NEWS IN BRIEF

► **FARM SHOW:** Radio and television coverage of the Pennsylvania Farm Show in January by the Agricultural Extension Service was the most extensive in the history of the Show. In all, 77 different radio stations were served with 622 programs via direct lines, beep phones, and tape recordings. Television coverage consisted of 64 beep phone calls to 12 different stations. Two stations shot sound film and four others produced silent film.

► **TEACHING:** Dr. Joseph Marin, head of the department of engineering mechanics, gave a two-week course in "Properties of Materials" to 16 members of the Technical Division staff of the Baytown Refinery of the Humble Oil and Refining Co. earlier this month. This was the second course he had presented at the Baytown Refinery.

► **THESPIANS:** The Penn State Thespians' show, "The Bells are Ringing," which opened Thursday, Feb. 22, will also be given tonight (Friday) and two performances, at 2 and 8 p.m., Saturday. Tickets are still available at the HUB desk. This is a highly successful Broadway musical.

► **APPOINTMENT:** Amos E. Neyhart, director of the Institute of Public Safety, has been appointed by President Kennedy to the President's Committee on Traffic Safety, along with a Connecticut retired vice president of Aetna Casualty and Surety Co.; the president of California Cartage Co. and business firms; and the managing editor of the Austin, Texas, American Statesman.

Architectural exhibit opens Feb. 27

The first of a series of architectural exhibits aimed at making the public more aware of the great need for planning of communities, business areas, and other public spaces will open Tuesday, Feb. 27, in the new Engineering Exhibition Hall.

Dr. Milton S. Osborne, head of the department of architecture, will officially open the exhibit at 7:30 p.m. and speak on the work shown and the importance of public attention to architectural planning.

To be exhibited until March 9, the first display is entitled "The Roots of Urban Design" and introduces the central theme of man and his environment. It includes some 35 models, ranging from the famous Stonehenge Ritual Site to University facilities. All were prepared by freshmen architectural students to show historically the kinds of public spaces man has made for himself.

The exhibits have many purposes, Dr. Osborne says, serving both the student and the public. They will make available to the architecture student the opportunity for public display of his work and help him to understand the reality and vital nature of his design exercises. It is hoped that the exhibitions will encourage more intensive study and greater originality on the part of the students.

"We believe that we can help the public develop awareness of its environment and the role of the architect and urban designer in giving form to that environment through this series of exhibits," says Dr. Osborne. "We hope also that we can acquaint other students and educators with the work of the architect and show what role their own studies should play in the work of these design professions."

In time, members of the architecture faculty hope also to develop a center here that will help high school counseling programs in the area of architecture and urban design.

Other studies to be exhibited in the future include "Applications of Urban Design;" "The Mall Revisited;" and "The Problem of the Rental Unit."

Cooperative

Penn State and Lincoln University have joined forces to offer a cooperative program in engineering, effective beginning with the Fall Term.

Students who have completed a three-year pre-engineering program at Lincoln will be accepted into specific curricula at Penn State in the College of Engineering and Architecture. The plan will enable the student to complete in five years a program which might require six years or more otherwise.

Photos given

A set of 190 photographs of or concerning Marcel Proust (1871-1922), famous French writer, has been presented as a gift to Pattee Library by the Cultural Counselor Representative in the United States of French Universities, Edouard Morot-Sir.

The French Government provided the set of photos, said to be the last from the files of the government, to enrich the Library's studies.

The photographs were at one time on circulating exhibition throughout the country and were at Penn State in November. An offer to purchase the photos brought the response of the gift.

Charles Mann, curator of rare books and manuscripts, explains that the photos will be placed on file in the Rare Book Room for use by interested faculty members and advanced students, and will be put on display occasionally.

Alumni dinner

Dr. Harold I. Tarpley, professor of electrical engineering, and Dr. Henry A. Finch, professor of philosophy — who received the President's Award for Superior Teaching last June — will be honored by the Penn State Alumni Club of Centre County Wednesday, March 7, at a dinner in the HUB ball room.

Earl B. Stavely, professor emeritus of electrical engineering, is general chairman of the dinner committee. Alumni, faculty, students, and area residents are invited to attend the dinner, the second held by the Club to honor the "Teacher of the Year."

Home economics

The 13th Annual Home Economics Spring Weekend April 13 and 14 will be based on the theme, "Families Around the World — Technical and Human Development."

Featured speaker will be Dr. L. E. Dennis, associate director of the Peace Corps.

The program will include lectures, tours, exhibits, and movies on the general theme. Each year about 2,000 people from Pennsylvania and other states attend the Spring Weekend program.

CALENDAR

Friday, Feb. 23

Penn State Thespian Show, 8 p.m., Schwab Auditorium. Broadway musical, "The Bells are Ringing." Tickets at HUB desk.

Players production of "Five Finger Exercise," 8 p.m., Center Stage.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Bela Karlovitz, Combustion and Explosive Research, Inc., on "Electrically Augmented High Temperature Flames."

College of Agriculture Faculty Seminar, 3:55 p.m., Room 121 Sparks. "Programs for Area and Community Development" with N. A. Griffith and W. M. Carroll.

Saturday, Feb. 24

Penn State Thespian show, "The Bells are Ringing," 2 p.m. and 8 p.m., tickets at HUB desk.

Varsity fencing, vs. Cornell, 3 p.m.; varsity basketball, vs. Pittsburgh, 8 p.m.

Graduate Student Association square dance, 8:30 p.m., Lutheran Student Association gymnasium. For faculty and graduate students.

Sunday, Feb. 25

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Donald McIlvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Rabbi Arthur J. Lelyveld, Fairmount Temple, Cleveland, on "What's Happening to Man."

University Lecture in Religion, 8 p.m., Room 121 Sparks, sponsored by Committee on Interreligious Affairs. Rabbi Arthur J. Lelyveld, on "Religion and American Life."

Concert by combined Women's Chorus and Men's Glee Club, 3 p.m., Schwab Auditorium.

Monday, Feb. 26

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." R. R. Kountz, professor of sanitary engineering, on "Impressions of Latin America."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. R. Y. C. Lee, on "Thermoplasticity."

Meeting of the faculty of the College of Physical Education and Athletics, 7 p.m., White Building recreation room.

Wednesday, Feb. 28

Artists Series program by the Netherlands Chamber Choir, 8:30 p.m., Schwab Auditorium.

Sociology Club film, 7:15 p.m., Room 214 Boucke. "Shades of Gray," picturing the treatment and therapy of soldiers.

Meteorology Seminar, 3:55 p.m., Room 308 Willard. E. K. Webb, visiting research professor, on "Development and Ideas in Micrometeorology."

Biological Sciences Lecture Series, 11:10 a.m., "The Organism and the Environment" with Arthur Hasler, University of Wisconsin.

Thursday, March 1

English Colloquium, 7:30 p.m., Nittany Lion Inn. Harrison T. Meserole, on "The Ordered Word: Some 17th Century American Poetry."

Meeting of the faculty of the College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. Russian film, "Alexander Nevsky." Tickets at HUB desk.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Warren W. Brandt, Kansas State University, on "Phosphorescence and Fluorescence Phenomena."

Television listings

(for week of Feb. 26, WFBG-TV, Altoona)
Farm, Home, and Garden

1-1:30 p.m.

Monday — R. L. McChesney, on How to be a 4-H Member.

Tuesday — A. H. Bauer, on Seed and Soil Treatment.

Wednesday — John Tait, on Why have a Landscape Plan.

Thursday — C. P. McMinn, on Grassland Management.

Friday — Margaret Isenhower, on Spring House-cleaning.

Folio 15

9-9:15 a.m.

Monday — Franklin H. Cook, professor of business law, on "New Concepts on Anti-Trust Laws."

Tuesday — Grace Ferrari, instructor in speech, on "Higher Learning: Pre-Dawn Division."

Wednesday — Jacob J. Kaufman, professor of economics, on "The New York-Pennsy and Labor;" also Marilyn Shobaken, art editor, department of publications, on "Designing a Book."

Thursday — Clifford A. Nelson, assistant coordinator of religious affairs, on "The Church in Suburbia."

Friday — George E. Brandow, professor of agriculture economics, on "Freeman and the Farmers."

Artists series

The Netherlands Chamber Choir, directed by Felix de Nobel, which gave a highly successful performance on the Artists Series Feb. 23, 1960, will return for a concert Wednesday, Feb. 28, at 8:30 p.m., in Schwab Auditorium.

Tickets for the concert will be on sale to the public beginning Sunday, Feb. 25 at the HUB desk and continue through Tuesday, Feb. 27.

Included on the program will be many works of the 16th and 17th centuries, including those of Weelkes, di Lasso, Morley, and Palestrina's "Stabat mater." In the second half, the program will include contemporary numbers and also Flemish, Dutch, and American folk songs.

The next Artists Series program will be given March 10 by Pierrette Alarie, soprano, and Leopold Simoneau, tenor.

Books

Dr. Paul S. Greenlaw, associate professor of management, is co-author of "Business Simulation" to be published by Prentice-Hall next month. Co-authors are Lowell W. Herron, dean of the College of Business Administration at Clarkson College of Technology, and Richard H. Rawdon, assistant professor of business at Clarkson.

The book provides a comprehensive treatment of the design administration and use of business simulation as an educational approach in university business courses and industrial training programs.

Grades

A summary of scholastic actions at the end of the 1961 Fall Term reveals a slight reduction in actions since last year, continuing a trend of recent years.

The number of undergraduates dropped, placed on probation, or warned was 29.03 per cent of the total for the Fall Term. A year ago, the percentage was 29.75 and in 1959 was 33.66. The number of students dropped was 118 (98 men, 20 women) or 0.72 per cent of the undergraduates, opposed to 0.87 per cent in 1960 and 0.84 per cent in 1959.

The greatest number of students dropped by one college was 50, by Business Administration, constituting 2.69 per cent of the undergraduates; next in line was Liberal Arts, with 19, or 0.63 per cent. No students were dropped by Mineral Industries.

Of 5,492 freshmen, 44 were dropped, 1177 placed on probation, and 628 warned, for a total of 1849, or 33.67 per cent. Percentages for other classes were: sophomore, 33.38; junior, 27.29; senior, 16.22.

A total of 45 students (compared to 19 last year) have all-University averages of 4.00, 33 of them first-term freshmen. No student above ninth-term standing has a perfect average currently.

More than a third of two-year, associate degree students were dropped, warned, or placed on probation at the close of the Fall Term. A much higher percentage, 7.57, were dropped than was true for baccalaureate degree students. Of the freshmen, 44.20 per cent received one or another form of action and 19.56 of the sophomores did.

Eighteen of the 1689 associate degree candidates have perfect 4.00 averages, 13 of them first term students.

New Kensington

A 30-acre tract of land has been deeded by the Aluminum Company of America to the University as a site for the future development of the New Kensington Center.

Located four miles east of New Kensington, the tract is valued at \$23,000 and is part of a farm owned by the company along Rt. 780, providing easy access to the city.

It is expected that with development at the new site by the University and the community the program would be expanded to include the first two years of baccalaureate programs. At present, 50 students are enrolled in drafting and design technology and 43 in electrical technology.

Music ahead

Two musical programs by student groups will be featured in the next ten days. Both are open to the public.

Sunday, Feb. 25, the University Women's Chorus and Men's Glee Club will present their annual concert at 3 p.m. in Schwab Auditorium, doors opening at 2:30 p.m.

Sunday, March 4, the Penn State Concert Blue Band will give its annual concert at 3 p.m., also in Schwab Auditorium, with the noted tuba player, William J. Bell, as soloist.

The concert by the choral groups, directed by W. Paul Campbell for the women and Frank Gullo for the men, will include the following numbers:

"How Merrily We Live," a series of 11 German dances by the Women's Chorus, with vocal solos and instrumental accompaniment by an ensemble of violins, viola, and cello.

Vaughn Williams "Sound Sleep," by the Women's Chorus.

Malotte's "Song of the Open Road," a solo by Robert Froberg.

Five numbers by the Men's Glee Club, including a Welsh Chorale, Fred and Tom Waring's "The Hills of Old Penn State," Noble's "Fierce was the Wild Billow," Gullo's "How Do I Love Thee," and Beethoven's "Hallelujah Chorus."

An English folk song, "May Day Carol" by a women's ensemble.

Four numbers by the Mixed Chorus including a work by Handel, a spiritual, an English folk song, and Wagner's "Ballad of Brotherhood."

* * * * *

The Blue Band concert, directed by James Dunlop, will include:

The National Anthem.

Beethoven's Egmont overture.

Joseph Willcox Jenkins' "Cumberland Gap."

Serge de Castane's "Fireworks."

Charles Lecocq's "Mademoiselle Angot."

William Walton's "Crown Imperial."

George Kleinsinger's "Tubby the Tuba," with William Bell as soloist.

Paul Creston's "Prelude and Dance."

Selections from "Camelot" by Frederick Loewe.

John Philip Sousa's "Stars and Stripes Forever."

Europe flight

A Thrift Flight to Europe, costing \$278 per person round trip, is being offered to University faculty and staff members and students. It will be operated under the new special group rates for 25 or more members of the same organization traveling together. The flight will leave New York June 14 for London and will return from London July 25. Further information may be obtained from Dr. Vladimir Stubican, visiting associate professor of geophysics, AD 8-2140. A six-weeks tour of Europe to coincide with the special flight is being offered at the all-inclusive price of \$599.

Television instruction

(This is one of a series of reports issued periodically by the President's Office on matters of mutual concern to the faculty and the administration.)

INSTRUCTION BY closed-circuit television began at Penn State in the spring of 1955, with 367 students enrolled in Chemistry 1 and Psychology 2 and 17. Since that time enrollment has increased twentyfold; 7,380 students were enrolled in courses taught by television in the fall of 1961 — 2,240 more students than in the fall of 1960. To the present time 57,844 Penn State students have taken courses by television.

Two courses — Air Science and Music 1—have been taught on closed-circuit since the fall of 1955; Accounting 1 and Sociology 1, every term since the spring of 1956. During these years the number of teachers has been so adjusted that it would be very difficult to arrange for these courses to be taught by any other method without additional staff. The Mathematics department could not abandon television instruction in Math 41 and 43 without adding faculty members. This is also true for Army ROTC, which last year was revised to use television. This fall 1,144 students were registered in Army 1; Air Science 1 and 4 enrolled approximately 1,200 in television classes.

In the past 14 terms, fifty courses have used television for instructional purposes. Classrooms are now located in four buildings: 11 rooms, seating 782 students, in Sparks Building were equipped for television in 1955; 16 in Boucke Building in 1958; another 16 rooms in Wagner Building in 1960. Schwab Auditorium, using Eidophor, holds 1,200, making a total seating capacity for 3,227 students to receive television instruction at one time.

With all this television instruction available, less than 5 per cent of the total course units are taught by television, and almost all television courses also include laboratories, practicums, or discussion sessions.

There are 12 full-time employees on the production and engineering staff, and 20 students work as part-time camera operators. Research has shown that, with these fixed costs, the break-even point financially is in courses of approximately 200.

There has been continuing examination of the results of television instruction and constant effort to improve the method. Faculty members, called upon to adjust their techniques and established habits to fit the medium, have given problems painstaking concentration and countless hours of their time. Results have been rewarding. In most test comparisons students in television classes did as well as students in more conventional classes.

TV instruction has been particularly successful in those courses requiring demonstrations that could not easily

be seen by every student in a large classroom. Television has noticeably increased the amount of visual materials presented to classes.

Probably the greatest contribution of television to The Pennsylvania State University is the active concern about good teaching it has aroused. It challenged sacred cows, frightened others, and forced critics to do more than just oppose. No other single stimulus has had more effect on thinking about the teaching process than the television instruction program.

Beyond the campus our experiments in television have enhanced the University's reputation as an institution that is willing and able to advance the frontiers of instructional research and to make every effort compatible with high academic quality to bring educational opportunities to members of the Commonwealth. For the past year, the Division of Academic Research and Services reports, an average of three visitors a week from other universities have observed our television instruction program.

Items of Interest

Lectures and Talks

CHENG, TIEN HSI, entomology, a series of lectures at Cornell University in April and a graduate seminar on his research.

CORTER, L. W., political science, a talk on "The Pros and Cons of Various Options Available under the Third Class City Law of 1957," before the Charter Revision Committee, Bradford.

HEIDE, EUGENE, New Kensington, discussion leader for panel on "Role of the P.T.A." at the Edgewood School, New Kensington.

MCKINLEY, D. H., Business Administration, a talk before the Olean, N. Y., Management Seminar and Olean-Bradford Industrial Management Club on the present business expansion.

MUELLER, E. W., physics, the J. A. Becker Memorial Lecture at the joint meeting of the Summit Association of Scientists and the staff of the Bell Laboratories on "Physical Properties and Direct Observations of Surfaces."

MURPHY, G. E., Reading Clinic, talk at a special meeting on reading at the Jersey City State College, March 21.

SAUER, J. A., physics, visiting lecturer at Oberlin College March 7-9 in the National Science Foundation supported program to stimulate interest in physics.

SIGNELL, P. S., physics, visiting lecturer at York Junior College March 26-27, under

(Continued on page four)

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Armstrong Cork Co.	\$ 7,000	New-research on vapor transmission through insulating materials	F. A. Joy
Public Health Service	12,880	Escherichia coli serotypes in diseases of animals	Paul Glantz
Rohm and Haas Co.	500	Research at Arendtsville Fruit Research Lab	Dean Asquith
Stackpole Carbon Co.	10,000	Ferrite research	W. R. Buessem
Union Carbide Olefins Co.	3,500	Research on fuel properties	H. B. Palmer
Medical Sciences Research Found.	17,349	Role of Avian Vectors in Transmission of Viral Infections	E. H. Ludwig
ibid.	41,360	Effects of pesticides on biological activities in the soil	R. W. Stone
Vickers Inc.	167	Gift of small fluid transmission for instructional purposes	M. S. Gjesdahl
Philadelphia Ordnance District	7,474	Gift of equipment previously on loan	Ray Pepinsky
Eso Research and Engineering Co.	varied	Renewal of predoctoral fellowship in chemical engineering	M. R. Fenske
ibid	varied	Renewal of predoctoral fellowship in chemistry	Thomas Wartik
Mead Corporation Foundation	300	Grant for support of worthy students or for equipment	M. R. Fenske
Pennsylvania Refining Co.	1,000	Grant to support chemical engineering work	M. R. Fenske
Grange League Federation	10,000	Study of "Competitive Position of Pennsylvania Agriculture"	M. E. John
AZI-LIA Expanded Research Program	8,200	For graduate training and research dealing with polymorphs of lead oxide and zinc oxide	Rustum Roy
Aluminum Co. of America	1,000	Support of Blasting Research Program	B. J. Kochanowsky
Eso Research and Engineering Co.	75,000	Petroleum research dealing with separation and conversion processes	M. R. Fenske

Items —

(Continued from page three)

- National Science Foundation sponsored program.
- SKELL, P. S., chemistry, lecture at Western Reserve University on the "Frontiers in Chemistry" program on the topic, "Bivalent Carbons, Radical and Non-Radical Varieties."
- colloquium talk at the University of Syracuse on "Stereospecificity in Radical-Olefin Reactions."
- TAYLOR, B. P., keynote address for the Development Section, American Alumni Council District II, meeting on a capsule workshop for fund workers.
- WARREN, J. M., psychology, a lecture on "The Prestrate Cortex and Visual Learning" at the National Institute of Mental Health.

WILLIAMSON, M. A., Engineering and Architecture, a talk on "Engineers, Scientists, Challenges" at the annual meeting of the Cleveland section of the American Institute of Mechanical Engineers.

ZELKO, H. P., speech, talks in Rochester, N. Y. before the third annual Management Seminar of Rochester Institute of Technology, Rotary, and the Industrial Management Council of Rochester, all on the subject of Communications.

Elected and Appointed

- BIERLY, G. W., Wilkes-Barre, appointed to the Wilkes-Barre Chamber of Commerce Education Committee.
- BOUCHER, R. V., ag biochemistry, named to the board of the Animal Nutrition Research Council.
- HENDERSON, GRACE, M., Home Economics, appointed chairman of a committee to

plan the national conference on Continuing Education of Women.

HOWELL, B. F., JR., geophysics and geochemistry, re-elected to the board of directors of the Seismological Society of America for 1962-63.

MUELLER, E. W., physics, elected chairman of the Division of Electron Physics of the American Physical Society.

REEN, C. G., civil engineering, named for three-year term to the Board of Directors of the American Road Builders' Association.

RICHARDS, M. D., commerce and management, reappointed Membership Chairman for The Academy of Management.

TRIEBOLD, H. O., JR., safety, appointed representative for Pennsylvania and Northern New York, Executive Committee, Public Employee Section, of the National Safety Council.

faculty BULLETIN

Vol. 49, No. 30

Feb. 23, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F. DAVIS
229 RECREATION

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Personnel benefits

The President's Office has issued the following statement regarding the University's program of personnel benefits:

The University recognizes the importance of providing a comprehensive program of personnel benefits for all full-time staff members. In order to assure that this program includes the best and most recent practices in respect to personnel benefits, the University participates in nation-wide studies and surveys to obtain up-to-date ideas for possible improvements in the present program. The University's existing policy is expressed in the following program of personnel benefits:

The first group of benefits are those provided entirely by the University, with no monetary contribution by a staff member. Included in this group are: paid vacations; holidays; sick leaves; sabbatical and graduate study leaves; parking facilities; funds for research; free use of computer time; and workmen's compensation insurance benefits. Paid time off is also allowed for jury duty, subpoenaed witnesses, death in the family, volunteer firefighting and ambulance driving. A staff member on annual military training duty is allowed the difference between military pay and regular salary.

The second group of benefits are those paid in part by the staff member and in part by the University. This group includes life and hospitalization insurance, with major medical benefits, and a 75% tuition allowance for staff members and their dependents enrolled at the University.

The third classification are those benefits partially paid for by the staff member and partially by the Commonwealth of Pennsylvania. All full-time regular staff members, except those paid wholly from Federal Funds, are eligible for membership in the State Employees' Retirement System which is integrated with the Federal Social Security plan. Contributions are made by payroll deductions in accordance with a standard formula for both State Retirement and for Federal Social Security. Upon the retirement of a staff member, the Commonwealth contributes the amount required above the individual's accumulated contributions to purchase

(Continued on page two)

Project aided by Research Associates

A RESEARCH project designed to learn more about the economy and culture of the Upper Susquehanna region — involving parts or all of Centre, Clinton, Lycoming, Sullivan, Potter, Cameron, Clearfield, and Cambria counties — has been initiated by four departments of the University.

The project is being aided by funds which were provided by Penn State Research Associates, a group of faculty members who annually give a part of their consulting fees to the University to advance research projects for which available funds are limited.

Called the Upper Susquehanna Interdisciplinary Project, the study is being directed by Dr. E. Willard Miller, head of the department of geography, and faculty members in geography, sociology, political science, and agricultural economics and rural sociology are involved. University funds from the Central Fund for Research are also contributing to the project and a graduate assistantship has been provided by the College of the Liberal Arts.

With an interdisciplinary approach to the project, several goals have been set up in the study: to integrate concepts of basic social and political processes that effect the economy and culture of the region; to appraise and evaluate alternative methods of resource inventory and analysis; and to ascertain the major political, cultural, and economic forces affecting the regional dynamics.

"Ultimately," says Dr. Miller, "the completed study should help the region understand itself and plan more constructively for the future. Studies like this would be useful in many areas of this country. To my knowledge we are the first to make a study of an en-

tire region which involved all of the disciplines we have working here."

The grant by Penn State Research Associates is specifically helping Takashi Yamaguchi, graduate assistant in geography and graduate of the Universities of Tokyo and Toronto. He is working with Dr. Miller on two problems: the evolution of the economy and culture of the region, and a resource inventory.

Yamaguchi hopes to answer such questions as: What economic stage has the region reached? What constitutes a natural resource in this region? Can a resource classification index be developed in order to evaluate the resource potential of the area?

Penn State Research Associates, which provided \$1,500 this year for research purposes, was incorporated in 1957 and made its first contribution in 1958. Present officers include Dr. Warren W. Miller, professor of chemistry, president; Jerome Strauss, retired vice-president of Vanadium Corporation of America, executive vice-president; Dr. C. H. Blanchard, associate professor of physics, vice-president; and James H. Campbell, of Lemont, secretary-treasurer. Other members include Drs. Robert W. Taft, Thomas Wartik, Rolf G. Winter, Richard G. Stoner, E. T. Williams, J. C. Eisenstein, and E. R. Fitzgerald.

Library awards

A competition for Penn State undergraduate students to increase interest in reading and book collecting is underway, sponsored by the University Library, Keeler's, The University Book Store, Pennsylvania Book Shop, and The Nittany News.

In addition to competing for awards of \$50, \$25, and \$10 worth of books donated by the book stores, the students will also be seeking to qualify to represent Penn State in national competition for the Amy Loveman Award of \$1000, given to the senior judged to have the best personal library.

A collection should have 35 or more books, of discriminating selection. The collector will submit a list of books in his present library and an annotation of 25 words or less of each listed work.

Closing date for filing entries locally

is April 6. The ten best collections will be exhibited at Pattee Library. Awards will be made at the Library in a ceremony April 13, as a culmination of the observance of National Library Week.

Faculty members are urged to call attention of their students to the competition. Further information may be obtained from the Reference desk at Pattee Library; at the English Department office, Room 246 Sparks; at any of the branch libraries, or at the book stores.

Artists series

Soprano Pierrette Alarie and tenor Leopold Simoneau will be featured on the next Artists Series program, Saturday, March 10, at 8:30 p.m. in Schwab Auditorium.

Tickets for the performance will go on sale to the public Thursday, March 8, at the HUB desk.

CALENDAR

Friday, March 2

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Henry Finch, professor of philosophy, on "A Logician's Notes on the Nature of Life."

Sigma Xi lecture, 7:30 p.m., Mineral Industries Auditorium. Dr. A. Geoffrey Norman, professor of botany and director of the University of Michigan botanical gardens, on "The Uniqueness of Plants."

College of Agriculture Seminar, 3:55 p.m., Room 112 Buckhout. E. O. Heady, executive director of the Center for Agricultural and Economic Adjustment, Iowa State University, on "Programs and Progress in Agricultural Adjustment."

Saturday, March 3

Regional Faculty Conference on "Religion and the Common Good." Sessions in The Chapel, with address by Dr. Kyle Haselden, managing editor, The Christian Century. Dinner at HUB dining room "A", 6:15 p.m.

Hillel Foundation presents AVIV, theater of dance and song, 8:15 p.m., 224 Locust Lane.

Friends of India Association meeting, 7:30 p.m., Lutheran Student Center; Dr. M. E. Rozen, assistant professor of economics, on "Economic Development of the Underdeveloped Nations."

Sunday, March 4

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Richard Martin.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Kyle Haselden, managing editor, The Christian Century, on "The Subtlest Foe."

Regional Faculty Conference on "Religion and the Common Good." Panel discussion, 9:30 a.m.; dinner and comments by Dr. Kyle Haselden, 12:15 p.m., HUB dining room "A".

Blue Band concert, James Dunlop conducting, William T. Bell, guest soloist, 3 p.m., Schwab Auditorium.

Monday, March 5

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. Joseph Alessandro, assistant professor of elementary education, and Felisa Anonuevo, graduate student, on "Report of Research on Teaching of a Second Language to Eight Sixth-Grade Classes in the College Area Schools."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. John C. Crowell, professor of geology, University of California at Los Angeles, on "Problems of the San Andreas Fault System."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammonds. Dr. Joseph Marin, on "Research Needs in Solid State Mechanics."

Tuesday, March 6

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A". Dr. V. E. Mares, on "Problems of Regional Development in the Common Market Countries."

Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. Lee S. Richardson, Westinghouse Research Labs, on "Materials for Thermionic Energy Conversion."

Wednesday, March 7

Nittany Grotto Meeting, 7:15 p.m., Room 121 Mineral Industries. Movies of Luray and Skyline Caverns.

Metecorology Seminar, 3:55 p.m., Room 308 Willard. Ray Booker, research assistant, on "Modification of Squall Lines by Lee Waves."

History Round Table, 7:30 p.m., Chapel lounge. Panel discussion by students in history honors course, on "Nationalism: Bane or Blessing?"

Home Economics Research Seminar, 12:30 p.m., HUB dining room "A". Jerry M. Rivers, on "Metabolic Studies of L-Ascorbic Acid and Erythorbic Acid."

Centre County Alumni Club dinner to honor Penn State Teachers of the Year, 6:30 p.m., HUB dining room "A".

Thursday, March 8

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. H. K. Wiese. Esso Research and Engineering, on "Cyclopentadiene Carboxylic Acids."

International Film program, 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk. "The Young and the Damned" (Mexican).

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. B. Trafton, on "Some Aspects of Statistical Methods in Exploration."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. David Bilhorn, Case Institute of Technology, on "Tensor Force Effects in Two-Nucleon Exchange Reactions."

Friday, March 9

Graduate Student Association mixer, 9:00 p.m., VFW hall. Tickets at HUB desk, for graduate students and faculty.

Opening sessions of EIWA Championships, Recreation Building, 1 p.m. and 8 p.m.

Television listings

(for week of March 5, WFBG-TV, Altoona)

FARM, HOME, AND GARDEN

1 - 1:30 p.m.

Monday — A. R. Keniston, on Termites.

Tuesday — Lewis Barr, on Purchasing Shrubs.

Wednesday — Robert Kimble, on Purebred Livestock Clinic.

Thursday — John Rosenberger, on Your Garden Soil.

Friday — Paul Reber, on Backyard Fruit Pruning.

FOLIO 15

9 - 9:15 a.m.

Monday — Dr. Bernard S. Olds, on The New American Authors.

Tuesday — Clyde R. Cloar, on The Changing Role of SAC.

Wednesday — Charles L. Hosler, on Weather Control in the Space Age; and Marilyn Shobaken, on Designing a Book.

Thursday — William T. Sanders, on The American Indian: Integration with Some Reservations.

Friday — Dagobert de Levie, on The Penn State Study Program in Europe.

Personnel —

(Continued from page one)

chase an annuity. If an individual terminates his employment prior to retirement, his accumulated contributions, together with interest, are returned to him.

The fourth type of benefit is a deferred compensation plan made available to University staff members. The cost of this program is paid entirely by payroll deductions. Benefits are not lost by termination.

NEWS IN BRIEF

► **SCHOLARSHIPS:** Ten current Penn State students are holders of National Merit Scholarships; nationally, there are 3,275 scholarship-holders in 403 colleges and universities. Since the National Merit Scholarship program began in 1956, nearly \$25 million has been provided to award winners and more than 450 different colleges and universities have received scholarship holders.

► **RELIGION:** The Southeastern Regional Office of Continuing Education has developed a special religious adult course for Delaware County with the cooperation of the St. Francis of Assisi Roman Catholic Church, the Delaware County Jewish Community Center, and the Covenant Methodist Church, all in Springfield. The course, titled "Exploring Religious Ideas," will be presented as a round-table discussion, and is designed to increase the understanding of Judaism, Protestantism, and Roman Catholicism.

► **LABELS:** The small gummed Land-Grant Centennial seals for use on University stationery are still available from Room 201 Old Main. The order for them should be accompanied by an Inter-office Transfer to budget 645-227. Cost is \$1.40 per thousand.

► **FACT CARDS:** 1962 University fact cards are available for distribution. A call to UN 5-2522 will bring them free of charge in any quantity.

► **INSTITUTE:** An institute for elementary school French and Spanish teachers will be held June 25-Aug. 10, under provisions of the NDEA. Twenty-two applicants will be chosen from each of the two language areas.

► **LOANS:** A new loan fund to aid upperclassmen has been established by the local chapter of Phi Kappa Phi, general scholastic honorary. An initial grant of \$1,250 was made to establish the fund. Loans will be made on the basis of character and scholarship, and selection will be made by the Director of Student Aid.

► **BAND:** The Penn State Concert Blue Band, with noted tuba player William J. Bell as soloist, will present a concert Sunday, at 3 p.m. in Schwab Auditorium. Mr. Bell will also conduct a clinic at 2 p.m. Saturday. The Band is conducted by James W. Dunlop.

► **SENATE:** The University Senate will meet Tuesday, March 6, at 3:55 p.m. in Room 121 Sparks.

OGONTZ CAMPUS

ON A wooded 42-acre plot in Abington Township, twelve miles north of Philadelphia's City Hall, is the largest of the University's Commonwealth Campuses.

The campus is called Ogontz, retaining the Indian name it bore as a women's junior college before Dr. Abhy A. Sutherland, its principal and owner, gave it to the University in 1950. The name obtained from that of a Wyandotte Indian, a friend of Civil War financier Jay Cooke. Mr. Cooke named his Philadelphia residence Ogontz and when the girl's school, founded in 1850 as the Chestnut Street Female Seminary, moved in 1883 into the Cooke mansion, the school acquired the Ogontz name. Then in 1917 the Ogontz School came to the present site and brought the name with it.

Dr. Sutherland's gift included eight major buildings, a good library, and a legacy of a century of educational service. The Penn State center and campus in the past decade has continued this service, albeit in a somewhat different fashion from that of former years.

Although University extension services in the Philadelphia area go back many years, the programs in resident education date from the establishment of the Swarthmore Center in 1947. That center closed the year following the acquisition of the Ogontz facility.

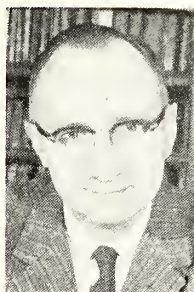
Until 1952 only freshman programs were offered at Swarthmore or Ogontz. Today nearly all University baccalaureate programs are offered for two years, and associate degree work, introduced in 1953, continues in drafting and design technology and electrical and electronic technology.

For the Fall Term 1961, 852 students enrolled in baccalaureate degree programs and 114 for associate degree studies. The ratio of men to women is about three to one. In addition to these undergraduates, 165 student nurses in a continuing education program for five area hospitals attend classes during four days each week from September to June. In the evenings, another 648 students are enrolled in formal continuing education programs. Informal programs bring additional students onto the campus in the course of the year. Ogontz students, undergraduates and adults, form a commuting student body from a radius of about 30 miles. Nearly two-thirds of the enrollment is from Philadelphia, one-sixth from Montgomery County communities, and the rest from Bucks, Chester, and Delaware counties. They come from a heavily industrialized metropolitan region where 4½ million people of many backgrounds and aspirations live. The student bodies reflect these vast differences.

The resident education faculty of 49 regular members, 11 temporary appointees, and the full-time supporting staff of 52 is augmented by 27 part-time teachers for the continuing education programs. Director Coleman Herpel, a 1932 graduate of Penn State, joined the University faculty in 1936. He combined teaching and administration at Hazleton and at Altoona, where he was assistant head for instruction before becoming director at Ogontz in 1955.

Of the present faculty only one, Mrs. Ellen C. Masters, widow of poet Edgar Lee Masters, came from the staff of the former Ogontz Junior College. Others have had a wide range of experiences in teaching in colleges and universities from Alabama to California, in professional activities outside academic institutions, and in graduate studies and training. Ten have come from other Commonwealth Campuses, including two from the University Park Campus.

The temporary appointments to the faculty, all of whom live in the Philadelphia area, have included the head of the department of



Herpel



sociology at nearby Beaver College, a clinical psychologist for the Pennsylvania Board of Parole, the head of the department of physiology at Jefferson Medical College, and a professor of geography at Temple University, as well as advanced graduate students from the University of Pennsylvania, registered architects, certified public accountants, and housewives with graduate degrees and professional experience.

Faculty members have degrees from thirty colleges and universities. Two hold degrees from foreign universities; eight have Penn State degrees. Thirteen have doctoral degrees.

With support from administrative officers and faculty, students operate an ambitious program featuring a weekly newspaper, a yearbook and a literary magazine; intramural and inter-campus sports activities; dramatics; and a host of special interest groups ranging from modern dance to literary criticism.

The Student Government Assembly co-ordinates all these activities and sponsors many worthwhile projects for the benefit of the entire student body. This year there has been an active social program, a "film classics" series, and a guest speaker series which featured such diverse events as a folk singer, a poet, and a string quartette from the Philadelphia Orchestra. Many of these programs, open to outsiders, bring town and gown together.

Focal point of the campus is a four-story stone structure, built in 1916 and enlarged in 1928, named in honor of Dr. Sutherland's brother. Sutherland houses most of the classrooms, some laboratories, offices, health services, swimming pool, and student recreation room. Another stone structure built in 1926, remodeled in 1950 and enlarged in 1956, accommodates the cafeteria and the bookstore. Other buildings include Cloverly (continuing education offices), Science (chemistry laboratories), Military Science, Art Studio, Hillcrest (staff residences), and Lares (Dr. Sutherland's home until her death last year). Parking spaces for students and staff accommodate a total of 572 vehicles.

The campus houses the regional headquarters for continuing education, for which Harry W. Githens is the chief administrative officer. In addition to the continuing education activities on campus there is an extensive program of courses given at many locations in the five-county region.

The very large and growing college-age population of the Philadelphia metropolitan area challenges the Ogontz Campus to do its share of the higher educational job. The problem of finding capital resources and operating funds to expand facilities and staff to meet part of the swelling demand for Penn State services will increasingly engage the attention of the University, the Commonwealth, and the complex of communities in which the Ogontz campus operates.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
U.S. Office of Education	varied	Seven new fellowships under NDEA Title IV program and renewal of support for previously granted fellowships	Philosophy, Political Science, Biophysics
National Science Foundation	\$ 7,130	Undergraduate science education program	R. W. Stone
ibid.	8,555	Advanced science seminar in clay mineralogy	G. W. Brindley
Ford Foundation	75,000	For forgivable loans to doctoral students in engineering	M. A. Williamson
U.S. Army Ordnance	30,000	Research on multi-fuel operation with vortex combustion	A. W. Hussman
National Science Foundation	3,000	Structures and theory of intermetallic compounds	E. R. Ryba

Faculty conference

A regional conference sponsored by the Faculty Christian Fellowship in the Middle Atlantic Region and the University Christian Association will be held Saturday, March 3, and Sunday, March 4.

Leaders of the Conference will be Dr. Kyle Haselden, managing editor of *The Christian Century*; Dr. William Mueller, Goucher College, representing the National Faculty Christian Fellowship; and The Reverend Quentin Schaut, O.S.B., rector, Penn State Catholic Center and former president of St. Vincent's College.

Dr. Haselden will speak Saturday at 2:30 p.m. at The Chapel on the general theme of the Conference, "Religion and the Common Good." A dinner in the HUB dining room "A" at 6:15 p.m. will be followed by dialogue and discussion.

Sunday's program will include a panel discussion at 9:30 a.m. and, after Chapel Service, dinner at the HUB, with further comments by Dr. Haselden.

Alumni dinner

The annual dinner to honor the Penn State Teacher of the Year will be held by the Centre County Alumni Club Wednesday, March 7, at the Hetzel Union Building dining room "A".

Honored will be Dr. H. I. Tarpley, professor of electrical engineering, and Dr. Henry A. Finch, professor of philosophy.

Faculty members are welcome to attend the dinner, along with alumni, students, and townspeople. Reservations must be completed by Saturday, March 3.

Michener exhibit

An exhibit of paintings from the collection of author James Michener will open March 15 at the Hetzel Union Building and continue through Apr. 5.

A public reception for Mr. and Mrs. Michener will initiate the exhibit at 8 p.m. March 15. Other guests will include Richard Hirsch, director of the Allentown Art Museum and curator of the Michener collection, which includes more than a hundred paintings by 20th century American artists. The exhibit at the HUB will include 26 paintings of the collection, by painters from the early years of the century and contemporary works.

The event has been planned by the School of the Arts to commemorate the Land-Grant Centennial.

Among the painters to be represented are Charles Burchfield, William Gropper, George Grosz, Robert Henri, Yasuo Kuniyoshi, George Luks, and John Marin.

Wrestling

The Eastern Intercollegiate Wrestling Association championships will be held at Recreation Building Friday and Saturday, March 9-10. Tickets are on sale at the ticket office of the Athletic Association, Room 249, Recreation Building. Reserved seats are priced at \$1.25 for Friday preliminaries, at 1 p.m.; \$1.50 for quarterfinals at 8 p.m.; \$2.00 for semifinals at 12 noon Saturday; and \$2.50 for finals at 7:30 p.m. Saturday. A series ticket costs \$6.00.

Unreserved seats in main floor bleachers are priced at \$1, \$1.25, \$1.50, and \$2.00 for the respective sessions, and \$4.50 for the series.

Items of Interest

Articles and Papers

At the meetings of the American Physical Society, papers by the following members of the physics department:

RANK, D.H., "Recent Work in High-Precision Infrared Spectroscopy."

MUELLER, E. W., on "Atomic Surface Structure of Field-Evaporated Alloy Crystals."

DONAHUE, D. J., on "Inelastic Scattering of Neutrons from Some Nuclear States with Collective Properties."

BARNES, C. F., Jr., art. a paper entitled "The Cathedral of Chartres and the Architect of Soissons" at the annual meeting of the Society of Architectural Historians.

BOWHILL, S. A. and Schmerling, E. R., electrical engineering, a survey paper, "The Distribution of Electrons in the Ionosphere" in the current volume of "Advances in Electronics and Electron Physics."

CHENG, TIEN-HSI, entomology, a chapter in the new book, "Sciences in Communist China" published by the American Association for the Advancement of Sciences.

DRAPER, A. B., industrial engineering, a paper on "Principles of Die Casting; Some Fundamental Thermal and Mechanical Aspects" in the January issue of the American Foundrymen's Society journal, *Transactions*.

HANSEN, CHADWICK, English, articles on Ralph Waldo Emerson's "Nature" and on Walt Whitman's "Song of Myself" in *The American Renaissance: the History and Literature of an Era*, edited by George Hendrick, in *Die Neueren Sprachen*, Beiheft 9.

HOLDERMAN, K. L., Commonwealth Campuses, an article in the January issue of *Technical Education News* on "The Penn State Commonwealth Campus System."

FAITH, C. C., mathematics, a paper titled "Johnson and Goldie Prime Rings" at the joint meetings of the American Mathematics Society and the Mathematical Association of America.

MONAT, W. R., political science, a paper on the subject, "Does Pennsylvania Need Another Broad-Based Tax," before the Pennsylvania Citizens Conference on State Issues.

faculty BULLETIN

Vol. 49, No. 31 March 2, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

NEWS IN BRIEF

► **RUSSIAN:** A group of 11 young men from the Soviet Union arrived Wednesday for a week's visit under a program planned by the Committee on Friendly Relations among Foreign Students and the National Student Councils of the YMCA and YWCA. They came under a two-way exchange program coordinated by the Council on Student Travel and the Soviet Bureau on Youth Travel of Moscow. The group will make tours of the campus, be dinner guests in homes of faculty members, visit Centre County farms and attend various functions on campus.

► **NEW POST:** Albert E. Diem, former vice president for business, has been named assistant to President James M. Halsey at the University of Bridgeport.

► **HONORS:** Nineteen seniors will be graduated with honors at Commencement Exercises Sunday, March 18, at 2:30 p.m. in Recreation Building. Included will be one student with highest distinction (3.80 to 4.00 all-University average), seven with high distinction (3.60 - 3.79), and 11 with distinction (3.40 - 3.59).

► **CHAPEL:** James W. Beach will direct Section A of the Chapel Choir in special music for Chapel Service Sunday, March 11 at 10:55 a.m. in Schwab Auditorium. The music will include "Ecce sacerdos magnus"; "Judas, mercator pessimus"; "Sicut erat, venite ad aquas"; and "Tantum ergo" by Luis Thomas da Victoria. The Rev. P. Barrett Rudd will preach on "A Lovers' Quarrel."

Evaluation program gains attention

THE University's self-evaluation program slowly is winning national attention for its potential and promise.

President Eric A. Walker says his mail from college and university presidents has been heavy since this self-study was first announced on July 1 of last year.

"What these presidents want to know, primarily," he reports, "is (1) how are you doing it? and (2) what are the results?"

The first question, he says, is conclusive evidence that many institutions have comparable studies under consideration.

The second, he explains, is a little more difficult to answer, especially since fewer than one-fourth of the University's 65 departments have been examined thus far.

"But, in the main," the President adds, "I think it is only fair to say that I have been very much encouraged by what I have learned about the departments in these first evaluations.

"We still have a long way to go in some areas, and I know that future evaluations are going to be both good and bad, but it would be a mistake to assume that I am less than optimistic about the whole undertaking."

Before the summer months bring an enforced lull in the evaluations, from 15 to 20 departments will have undergone the scrutiny first, of the department itself, and then of a team of three or more distinguished visitors.

"The word 'distinguished' is clearly deserved in this instance," President Walker says, "because we have been very much impressed by the character and ability of the men who have come to our campus to undertake these evaluations."

Only a few people have turned down invitations to serve in this capacity, he notes, and most of them have called to ask whether dates could be changed to conform with their schedules.

"These men think so well of this program," the President reports, "that none of them wants to miss it if they can possibly arrange it."

Dr. M. Nelson McGary, who serves as secretary of the five-man Standing Committee on Evaluation, says the evaluators, usually three in number, arrive on campus Sunday night, having previously been supplied with copies of the department's self-evaluation and other data, undergo a general briefing by one or more members of the committee, and go to work early Monday morning. Evaluations average about two a month.

The evaluators make their own rules. Over a period of three days, they will usually talk to the Dean of the College in which the department is located, to the department head and

others in the department, to undergraduates, graduates, and sometimes the members of other departments. They report orally to the President before they check out Wednesday, and endeavor at least to get started on the outline of a written report.

"The oral report does not differ radically from the written report except, perhaps, that the oral report deals more directly with personalities than does the written report," the President says. "I have found these reports both frank and forceful."

ALREADY EVALUATED — Petroleum and Natural Gas Engineering; Sociology and anthropology and Rural Sociology; Geography; Chemical Engineering; Journalism; Meteorology; Architecture and Landscape architecture; German, Romance, and Slavic languages; and Psychology.

TO COME — April 9-11, Agricultural and biological chemistry, Bacteriology, Botany and Plant Pathology, and Zoology; May 14-16, Speech, Metallurgy; June 25-27, Nuclear engineering.

The President further noted that he has been both surprised and disappointed by the reports thus far.

"I am more convinced than ever," he confides, "that we have some very good men and some very good departments at this University."

"But the picture is not uniformly good. There is a lot of work to do and, with the help of these evaluations, I think we should get started on the rebuilding job as soon as possible."

The President now meets with each department, after its members have had an opportunity to study the written report of the evaluators, and the findings are discussed in an atmosphere of general good-will.

"I think, and I hope, our faculty members understand that I am not looking for the opportunity to find fault in this operation," President Walker says. "It would be closer to the truth to say that all I wish to get out of this evaluation program is a better University."

President Walker says he will look to each department to initiate its own program of self-improvement.

"It will be my job," he adds, "to make it as easy as possible for each department to achieve distinction, either by furnishing the funds it will need to get started on the job, or by

(Continued on page four)

The Sewage Disposal Problem

(This is one of a series of reports issued periodically by the President's Office on matters of mutual concern to the faculty and the administration.)

WHEREVER he gathers, modern man creates his own environment. In doing this, he often upsets nature's balance, making new problems for himself.

Penn State's problems with sewage disposal is a typical example of this. When, in 1957, the University constructed a new sewage-disposal plant to meet the needs of a rapidly growing student body and community population, the installation met all requirements for such plants. In keeping with standard practices throughout the country, the effluent from this plant was discharged into an available stream. In this case, the stream was a rather small one that has, for many years, been heavily stocked with game trout.

At about the same time, however, rapid developments in synthetic chemicals started to bring about sweeping changes in the chemical composition of many commonly used household products. In particular, detergents quickly replaced soaps as the most common type of household cleanser. Detergents, in contrast with soaps, contain heavy concentrations of inorganic chemical compounds. About half their composition consists of phosphate compounds; and nitrogen, alkyl benzene sulfonates, starch and protein residues, and other inorganic chemicals are present in significant amounts.

Neither "modern" sewage plants nor the standard measures of sewage-plant efficiency were designed with chemicals of this sort in mind. As a result, large quantities of these chemicals are now being pumped into the streams receiving the discharge from the plants. In large part, these are the same chemicals used in the manufacture of commercial inorganic fertilizers, and one effect of their presence is to greatly encourage the growth of plant life in the streams. Both plants and game fish must "consume" oxygen in order to live; and, with the encouragement given to the plants by the addition of the phosphorous and other inorganic compounds, the fish find it increasingly difficult to compete. With the oxygen used up by the plant life, the fish die.

Other problems too

The ability of the streams to support game fish is only part of the problem, which has important implications for well-established recreational patterns and the businesses based upon them. There is, consequently, an ur-

gent need to find a solution to the increasingly heavy concentration of inorganic chemicals in the surface waters of the country.

Experts agree that it would be expensive and perhaps even impossible to remove the phosphorous and other chemicals at the sewage plant to the desired degree. The obvious alternative of drilling holes deep enough and large enough to deposit the effluent effectively within the earth would also be expensive and its effectiveness is questionable. To find a better solution, Penn State engineers and scientists are seeking support for two research projects, the results of which might not only provide a low-cost solution but might also convert a costly nuisance into a positive benefit.

The Gatesburg layer

University laboratory tests have shown that a porous geologic formation known as the Gatesburg is an effective filter for many inorganic chemical compounds. This formation lies in strata, or layers of rock and sand that approach the surface at some locations and, at others, run deeply into the ground. In theory, Gatesburg layers could serve effectively as natural canals, filters, and underground storage basins for sewage-plant effluent.

The University hopes to check this theory under carefully controlled experimental conditions in order to determine the extent of its practical usefulness. To do this, a measured amount of effluent will be pumped to a location within a few miles of its sewage plant where a Gatesburg layer runs very close to the surface of the ground. With the effluent introduced into the layer at this point, University scientists could measure the actual degree of filtration that occurs, any decrease in filtration effectiveness with use, the ability of the layer to contain the effluent, and the water-bearing capacity of the layer. The development of field data of this sort is necessary before

any large-scale operations for disposal by this method can be planned.

This experiment is aimed at developing an improved method of disposal for the effluent. The second experiment for which the University is seeking support is aimed at developing a method for utilizing it.

As an asset

University scientists reason that the nutrient value of the inorganic compounds is (or can be) an asset rather than a liability. Collected in lagoons and used for irrigation, the effluent would encourage the growth of plants and trees. At the same time, the heavy concentrations of inorganic compounds would be "consumed" by the plants. The lagoons could support commercial fish, some varieties of which do not require as much oxygen as the game fish, and the heavier foliage would support an increased population of birds and animals of interest to sportsmen. "Biological" utilization of this sort could be co-ordinated with the "geological" disposal plan to be developed in the first experiment.

To test biological utilization, the University plans to construct a series of experimental lagoons. The soil in the area selected for these lagoons is of low fertility but is now supporting a growth of 20-year-old evergreen trees laid out in blocks. Close to the site of the geological-disposal experiment, the area probably lies over a Gatesburg layer. These conditions make the area an almost perfect site for studying the inter-relationship between plant growth and the biological removal of the inorganic compounds from the effluent under controlled conditions and the effect of this inter-relationship upon wildlife.

The University hopes to be able to extend its experiments over a number of years in order to check the long-term effect of geologic disposal and biological utilization, as well as seasonal effects upon both disposal and utilization.

There was never any reason for disposing sewage effluent into streams and lakes except convenience. Until the rapid development of synthetic chemicals, this method of disposal proved reasonably satisfactory. But neither this method of disposal nor the design of sewage plants is equipped to deal with the heavy concentrations of inorganic chemicals now being dumped into the surface waters of the country. Penn State hopes to develop new methods for disposal that again make it possible for man and nature to live and work in harmony.

CALENDAR

Friday, March 9

Graduate Student Association mixer, 9:00 p.m., VFW hall. Tickets at HUB desk, for graduate students and faculty.

Opening sessions of EIWA Championships, Recreation Building, 1 p.m. and 8 p.m.

Saturday, March 10

Eastern Intercollegiate Wrestling Association championships, 12 noon and 7:30 p.m.

Artists Series, 8:30 p.m., Schwab Auditorium. Pierrette Alarie, soprano, and Leopold Simoneau, tenor.

Sunday, March 11

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. P. Barrett Rudd.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Choral Service by the University Chapel Choir, and Rev. P. Barrett Rudd, associate director of U.C.A., on "A Lovers' Quarrel."

Monday, March 12

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond.

Psychology Colloquium, 8 p.m., Room 214 Boucke. Dr. Irvin L. Child, professor of psychology, Yale University, on "Psychological Studies of Esthetic Judgment."

Tuesday, March 13

Central Pennsylvania Section, American Chemical Society, meeting 8 p.m., Room 111 Boucke. Dr. William J. Sparks, scientific advisor, Esso Research and Engineering Co., on "Modern Developments in Industrial Polymers."

English Colloquium, 8 p.m., HUB assembly room. William Golding, noted author.

Two films, sponsored by the department of architecture, 7:30 p.m., Room 322 Sackett: "Black Top" by Charles Eames, and "The New Age of Architecture" by Architectural Forum.

Wednesday, March 14

Concert to honor Mme. Nadia Boulanger, French director and teacher, by Hartt Chamber Players, vocal soloists, and Dr. Leonard Raver, University Chapel organist, 8:30 p.m., Schwab Auditorium.

Meteorology Seminar, 3:55 p.m., Room 308 Willard. Harry Glahn, graduate assistant, on "Discriminant Analysis."

Thursday, March 15

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. E. H. Rainwater, senior research geologist, Shell Development Co., on "Stratigraphy and Its Role in Petroleum Exploration, with Special Emphasis on the Gulf Coast."

Dr. Walter Stockmayer, Dartmouth College, on "Dynamics of Chain Molecules in Solution."

Golding speaks

Author William Golding will be the speaker on the program of the English Colloquium Tuesday, March 13, at 8 p.m. in the HUB Auditorium. The Colloquium is open to anyone wishing to hear Golding.

Currently visiting professor and writer-in-residence at Hollins College, Virginia, Golding has written four novels. His first, titled "Lord of the Flies," was written eight years ago. It is now being made into a movie on an island in the West Indies.

Golding's other novels are "The Inheritors," "Pincher Martin," and "Free Fall." He has also written a play titled "The Brass Butterfly."

A graduate of Brasenose College, Oxford, in 1934, Golding published a volume of poems in 1935 then turned to teaching writing. He has taught at Bishop Wordsworth's School in Salisbury, England, as well as at Hollins.

Television listings

(for week of March 12, WFBG-TV, Altoona)

FARM, HOME, AND GARDEN

1 - 1:30 p.m.

Monday — Harold Lockhoff, on modern forages.

Tuesday — Harvey Shaffer, on milk.

Wednesday — Janet Tritt, on wills.

Thursday — Gordon Walker, on ornaments and fruits.

Friday — Gray Mattern, on estate taxes.

FOLIO 15

9 - 9:15 a.m.

Monday — J. J. Kaufman, economics, on "The New York - Pennsy and Labor."

Tuesday — D. L. Cowell, Institute of Public Administration, on "Big City Police Forces."

Wednesday — M. D. Richards, business administration, on "Business and the Computer Boom."

Thursday — Helen I. Snyder, psychology, on "The Genius and the Gifted Child: How to Tell the Difference."

Friday — W. W. Miller, chemistry, on "Nuclear Research for Peace."

Michener

A public reception for Mr. and Mrs. James Michener Thursday, March 15, will mark the opening of the exhibition of paintings from the Michener collection which will hang in the HUB gallery until April 15.

The School of the Arts has made arrangements for the exhibit as part of the Land-Grant Centennial celebration.

The reception will take place at 8 p.m. in the HUB.

Open house

Lectures, demonstrations, and exhibits on the general theme of scientific developments in the biological and agricultural sciences will be featured in the College of Agriculture Open House program Saturday, March 17, from 10 a.m. to 4 p.m.

Programs in six areas — biological sciences, animal sciences, plant sciences, agricultural business, agricultural engineering, and counseling — will be repeated every hour so that visitors may take part in all of them.

Laboratories, greenhouses, livestock barns, and other facilities will be open and guides will be available to help visitors.

Boulanger concert

A concert by the Hartt Chamber Players, vocal soloists Nelga Lynn, William Fitzgibbons, Richard Christopher, and Marvin Hayes, and by Dr. Leonard Raver, Chapel organist, will be given Wednesday, March 14, at 8:30 p.m. in Schwab Auditorium to honor Mme. Nadia Boulanger.

Mme. Boulanger is a leading French musician, conductor, and teacher of many contemporary composers. She is celebrating her 75th birthday this year and is currently touring the United States. She recently conducted a concert by the New York Philharmonic Orchestra.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Army Research Office	\$30,020	Continued support of project on "Chemical Properties of Bivalent Carbon Species."	P. S. Skell
General Electric Foundation	5,000	New Graduate research and study grant in ceramics	G. W. Brindley
ibid.	5,000	Similar grant in industrial engineering and manufacturing processes	B. W. Niebel
ibid.	5,000	Similar grant in work of programmed learning	C. R. Carpenter
Air Force Office of Scientific Research	10,598	Studies of photometabolism	E. S. Lindstrom
Allstate Insurance Co.	1,500	Grant for summer scholarships for teachers attending driver education credit courses at graduate level	F. A. Miller
Office of Naval Research	5,000	Conference on the physics and chemistry of ceramics	M. E. Bell

Evaluation —

(Continued from page one)

speeding any executive action that may be found necessary in the rehabilitation process."

The President said he thought it would be unwise to name the "good, bad and middling" departments at this stage of the operation.

"Much more important," he insists, "is that we learn something about ourselves through these self-evaluations, and then set out to overcome our more serious shortcomings."

Turning to statistics for a moment the President said his meetings with the evaluators range from one to two hours, their typewritten reports from eight to ten single spaced pages, and the follow-up meetings with department personnel another one to two hours.

The evaluators come, in the main, from the major public and private colleges and universities. California, Pennsylvania, Cornell, Northwestern, Michigan, Chicago, Johns Hopkins, Princeton and Columbia, to name only a few, have been represented on these first "teams."

Members of the Standing Committee who have sat in on one or more of the various sessions which lead up to and follow the evaluations are satisfied that the approach has been good, and that the over-all experience has been healthy. There is agreement that some shortcomings were known previously, while others came as a surprise.

"It is too early to say what exactly will result from these evaluations," one member said, "but the outlook is good. I am confident that the total experience will be valuable."

Personnel matters

Herbert Bair, Penn State graduate and former instructor at Behrend Campus, has been appointed instructor in engineering at Ogotz.

Marilyn J. Conwell, assistant professor of Romance languages, has been granted a leave of absence to prepare her doctoral thesis for publication. The thesis is titled "Lafayette French Phonology." She holds three degrees from the University of Pennsylvania.

Dr. Clarence E. Thurber, who for the past ten years has served on the Ford Foundation staff and directed programs of the Foundation and universities in Southeast Asia, has been named associate professor of political science. He will be responsible for courses in international and comparative administration and will work with the Institute of Public Administration.

Books

Dr. Neal Riemer, professor of political science. "Revival of Democratic Theory," one of a series titled "Current Political Problems" published by Appleton-Century-Crofts Co. Suitable for supplementary reading in political theory and related courses, it analyzes the decline of democratic political theory and presents a strong case for its revival.

. . .

Dr. George M. Guthrie, professor of psychology, "The Filipino Child and Philippine Society," published by the Philippine Normal College Press in Manila. Research reports and essays prepared during his stay at the College as Fulbright scholar during 1959 and 1960.

. . .

Dr. M. Richard Sussman, assistant professor of finance. "The Stock Dividend," published by the Bureau of Business Statistics, University of Michigan. An investigation of the reasons for stock dividends, their influence on stock prices, and a theoretical concept of the stock dividend. He concludes that in general stock dividends are not justified.

. . .

Dr. Benjamin W. Niebel, head of the department of industrial engineering. Third edition of "Motion and Time Study," now used in more than a hundred universities in this and other countries. Revised edition published to meet increasing demand in the use of quantitative techniques as aid to the methods and work measurement analyst.

Deposit Documents

Pattee Library invites all members of the faculty and staff to deposit significant letters and documents in its manuscript collections, Charles W. Mann, curator of rare books and manuscripts, has announced.

Of particular interest is correspondence with colleagues engaged in scientific, scholarly, or literary pursuits. The Library collections already include manuscript material relating to scientists (Priestley), political figures (governors of Pennsylvania), architects (Latrobe), literary figures (O'Hara, Mencken, Pattee), psychologists (G. Stanley Hall), sociologists (Luther Bernard), botanists (G. W. Groff), and many others.

If faculty members have correspondence of potential value to the history of science or scholarship, Mr. Mann will be pleased to discuss the matter of its proper care, whether or not it is desired to deposit or donate at the present time.

faculty BULLETIN

Vol. 49, No. 32

March 9, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Registration

Registration for the Spring Term will be held Tuesday and Wednesday, March 27 and 28. Previous calendars indicated that registration would be held one day earlier.

On Monday, March 26, students will meet with their advisors.

Spring Term classes will begin at 8 a.m., March 29.

Graduation

Commencement exercises for the Winter Term will be held Sunday, March 18, at 2:30 p.m. in Recreation Building. Faculty members desiring to take part in the academic procession will meet under the south balcony at 2 p.m. in academic dress. Other faculty members who wish to attend the exercises but not take part in the procession may be seated in a special section on the main floor.

Colloquium

The Penn State Newman Club and the University Christian Association are sponsors of a colloquium, titled "You and the Communist Challenge," which will be held Sunday, April 1, through Wednesday, April 4.

Among the speakers to be heard will be Dr. Charles Malik, former president of the United Nations General Assembly and now visiting professor, School of International Service, the American University. Dr. Frank S. Meyer, associate editor of The National Review; Dr. Charles West, professor, Princeton Theological Seminary; and The Rev. John F. Cronin, S.S., assistant director, Department of Social Action, National Catholic Welfare Conference.

NEWS IN BRIEF

► **OGONTZ:** Needing facilities for indoor physical education activities and for general recreation area, the Ogontz staff has converted the former gymnasium into a "living space" and made arrangements with the nearby Abington YMCA to handle the physical needs of the students. A half-mile walk to the YMCA facilities is helpful also to the physical fitness program.

► **SCHOLARSHIP:** A scholarship to be known as The President's Merit of Scholarship, has been established to provide a "full assistance" grant to support an outstanding Pennsylvania resident enrolled as a freshman. It has been made possible by an initial gift from F. Bruce Baldwin, Jr., of Philadelphia, a 1930 alumnus and executive vice-president of Abbott's Dairies. The scholarship will cover room, board, tuition, laundry, and books and may be renewed until graduation.

► **CITATION:** Dr. James Tammen, associate professor of plant pathology, has been awarded a research citation at the 68th annual convention of the American Carnation Society for his numerous contributions to the carnation industry through research on several diseases. The award was made by the Florists Mutual Insurance Co.

► **APPOINTED:** President Walker has been appointed to the Board of Visitors of the U. S. Military Academy at West Point by President Kennedy. Also appointed was Dr. Robert F. Goheen, president of Princeton University.

Library hours

During the period between the Winter and Spring Terms, the following operational hours will be observed by Pattee Library:

Sat., March 17 — 7:50 a.m. — 5 p.m.
Sun., March 18 — See Schedule below
Mon.-Fri., March 19-23 — 8 a.m. — 5 p.m.
Sat., March 24 — 9 a.m. — 12:00 noon
Sun., March 25 — See Schedule below
Mon., March 26 — 8 a.m. — 5 p.m.
Tues., March 27 — Return to regular hours

In addition to the above hours, the Library will be open for use, during the following hours, by faculty members and graduate students who can check-in at the control desk, near the front entrance. There will be no staff on duty and no circulation or reference service.

Sun., March 18 — 2-6 p.m.
Mon.-Fri., March 19-23 — 6-10 p.m.
Sat., March 24 — 1-5 p.m.
Sun., March 25 — 2-6 p.m.
Mon., March 26 — 6-10 p.m.

► **ART:** Dr. Paul Edmiston, assistant professor of art education, is represented in an exhibit of prints, drawings, and paintings currently on display in Temporary Building. The exhibit will remain until March 26.

► **PEACE CORPS:** Forty-nine Peace Corps trainees, including 19 women, completed their training this week and will leave for the Philippine Islands March 26. A new group will arrive March 29 for ten weeks of training. Emilio Abello, Philippine ambassador to the United States, will address the departing group tonight (Friday) at a farewell dinner.

► **COURSES:** Five courses, ranging in length from one to three weeks, will be offered by the College of Home Economics during the Summer Term. The courses are planned for graduate students, college and high school teachers, undergraduates accelerating their programs, and professional workers.

► **DRILLS:** The Navy ROTC Drill Team, competing for the first time, captured first place in trick drill competition involving teams from Pennsylvania, Ohio, and New York at Gannon College, Erie, recently.

► **OCEAN:** Dr. Donald W. Pritchard, director of the Chesapeake Bay Institute of the Johns Hopkins University, will lecture on oceanographic problems associated with peaceful uses of atomic energy at 7:30 p.m. today (Friday) in the Mineral Industries Auditorium. The talk is open to the public.

Engineering

A series of engineering colloquies on interdisciplinary topics will begin next week. The colloquies are being given to an invited list of two faculty members from each of the departments of the College of Engineering and Architecture and one from each of the Commonwealth Campuses offering the baccalaureate program in engineering.

A banquet Monday, March 19, at 6:30 p.m. in HUB dining room "A" is open to anyone interested. Speaker will be Dr. Silvio O. Navarro, director of the Computing Center at the University of Kentucky, who will discuss "Computer Technology in Engineering Education."

The first colloquy, which will be held Monday, Tuesday, and Wednesday of next week, is on the subject, "Digital Computer Programming for Engineering Faculty."

Senate Minutes

MEETING OF MARCH 6, 1962

The University Senate met at 3:55 p.m. on Tuesday, March 6, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The secretary read a correction to the minutes as printed in the Faculty Bulletin for January 19, 1962. In the report of the Senate Committee on Admissions printed on page 2, column 2, paragraph 3, line 7, the word "mechanical" should be replaced with the word "nontechnical." The minutes were approved as corrected for the January 19 issue and as printed in the January 26 issue. One hundred twelve senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (W. C. Cochrane), H. A. Cutler (E. C. Budd), Ben Euwema (H. J. O'Brien), W. A. Kearney (F. G. Shaw), I. H. Kochel (T. E. Campbell), N. C. Pendered (A. V. Kozak), E. B. Riehl (W. R. Geelan), L. D. Tukey (E. L. Bergman), and G. F. Wislicenus (O. E. Lan-easter).

A letter was read from E. L. Keller, Director of Continuing Education, as follows:

In accordance with the action of the Senate on June 2, 1960, I am attaching a copy of the statements of policy on Continuing Education in each of the following Colleges: Agriculture, Business Administration, Chemistry and Physics, Education, Engineering and Architecture, Home Economics, Mineral Industries, and Physical Education and Athletics.

I am withholding the statement for the College of the Liberal Arts until I hear from Dean Euwema as to when it will be revised. It will then be sent to you.

The secretary stated that prior to the February meeting of the Senate, which was not held, a report was received from the Liberal Arts College explaining their earlier recommendation to make the R.O.T.C. program voluntary for students in Liberal Arts. This report was forwarded to the Senate Committee on Military Instruction.

A letter was read from D. V. Josephson, Chairman of the Senate Committee on Committees, recommending that N. D. Blackburn replace G. H. Watrous, Jr., on the Senate Committee on Courses of Study for the balance of this academic year. This recommendation had the approval of President Walker.

A letter was read from F. W. Peikert, Head of the Department of Agricultural Engineering, that he would be on sabbatical leave from March 1 to May 31, 1962, and that H. D. Bartlett would be acting head of the department during his absence.

The secretary read a letter from President Walker designating the following persons to serve as an advisory committee to the Courses of Study Committee, regarding instructional programs in the areas of computers, data processing, and system analysis: Bruce Barnes, Charles Forney, Jr., Paul Greenlaw, John C. Griffiths, and George M. Guthrie with Mr. Griffiths acting as chairman.

Reports of Standing Committees

J. R. Hayes, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as appendix "A". This report contained a recommendation to change Rule P-13 of the Senate Policies and Rules for Undergraduate Students and an explanatory statement. Mr. Hayes

moved adoption of the recommendation as follows:

Change Rule P-13 to read:

An associate degree student shall be dropped from the University for unsatisfactory scholarship at the end of the indicated term in accordance with the following schedule of action:

TERM	IF CUMULATIVE AVERAGE
CLASSIFICATION	FALLS BELOW
Second	1.40
Fourth	1.60
Fifth	1.80
Sixth	1.90

The explanatory statement was as follows:

Present Senate rules give the baccalaureate degree candidate three terms before drop action under Rule P-12 becomes effective, while the associate degree student, under present regulations, has but one term before becoming subject to such action. The Committee feels that one term of ten weeks may not provide sufficient time for the adjustment to a university environment, particularly for those associate degree programs conducted on the University Park Campus, and those in which the students are taking predominantly regular baccalaureate degree courses.

The motion was seconded and passed.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B". He noted that a curriculum change, item #128, circulated under date of November 27, provided an Option in Health Technology with an internship in the senior year. The present report contains item #150, a new course which implemented the option. He asked for unanimous consent that item #128 be incorporated in this report. Consent being given, Mr. Shelley moved adoption of proposals as recommended in the report, including item #128. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as appendix "C" concerning "Obtaining Credit by Advanced Placement Testing." He moved that the Senate accept the report. The motion was seconded and passed. The report is as follows:

REPORT ON OBTAINING CREDIT BY ADVANCED PLACEMENT TESTING

In keeping with its established policy of encouraging and expanding the use of credit by examination, the Committee on Educational Policy calls the attention of the members of the Senate to the fact that prospective freshmen may gain college credit when taking their college entrance board examinations through the College Entrance Board Advanced Placement Tests. All faculty members who have occasion to be in contact with high school students are requested to encourage them to seek college credit by this means. Also, advisors of our own students should be certain that their advisees who are eligible for such credit have actually informed the office of the Dean of Admissions that they desire the credits to be entered on their transcripts.

The University co-operates with the College Entrance Examination Board's program for advanced placement. Students may have the scores of the Advanced Placement Tests submitted for consideration of advanced standing credit. A passing grade on the test will qualify the student for credit in the appropriate subject matter area at The Pennsylvania State University and, upon request of the student or his advisor, will be recorded on his transcript in the same manner

as is used for recording credits transferred from other colleges or universities. The Educational Policy Committee has requested that the Division of Counseling and the Admissions Office emphasize this opportunity in publications sent to high schools and in the counseling of prospective students.

Further, the Committee endorses the efforts of the Chemistry Department to develop placement tests which will make possible the awarding of credit by examination to students who have developed competency at the freshman course level in chemistry prior to entering the University. It also encourages all departments which employ placement tests to give active consideration to the granting of credit by examination whenever possible.

Della Durant, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report which had been distributed at the meeting. She stated that there were double the number of applicants for scholarships this year over last year, there being 622 compared with 321 last year, with 131 scholarships to be awarded. She moved that the Senate approve the list of recipients which had had the approval of President Walker. The motion was seconded and passed. The nominees are as follows:

The Four-Term Plan

(This is one of a series of reports issued periodically by the President's Office on matters of mutual concern to the faculty and the administration.)

REPORTS from the several colleges express surprise over the speed and relative smoothness with which the change to the Four-Term Academic Year has been introduced.

Within one year each department and college, as well as the Senate Courses of Study Committee, had to review every curriculum and major. This activity forced a re-thinking of all academic programs. Every committee of the Senate had to revise its rules and regulations to conform to the plan.

This required a re-thinking of some fairly old rules. The faculty, students and staff instigated the calendar change in a commendable way. Much honest effort and hard work went into making the change as fruitful as possible. Patience and forbearance, however skeptical, smoothed the way.

The introduction of the plan last summer proved less troublesome than was anticipated. There was a bunching of assignments towards the end of the term which put a heavy pressure on the students, but this did not appear to have an adverse effect upon the total grade distribution. Because there are relatively few extracurricular activities in the summer, the full pressure of the new plan was not felt until the fall term with its heavy program of activities and a full campus.

While the students report that they feel pushed with less time for leisure, thought, contemplation, and discussion in the dormitories, they also report that they don't loaf as much and that they feel no midterm slump.

Faculty members find the contraction of time a disadvantage in subjects wherein retrospective evaluation is important. They also report some difficulty in arranging a sufficient number of quizzes and in grading the quizzes when they come too close together. The students reflect this difficulty by comments that emphasize the increased importance of having test papers returned promptly by teachers, so that misconceptions can be corrected before they are lost in advanced material.

Outside assignments

Perhaps the biggest single effect upon the course content relates to assignments that must be performed outside the classroom. Field trips and student conventions are less feasible under the four-term plan because the student cannot afford to be absent from his other classes. Each class meeting is now much more important.

Another effect is increased pressure on facilities that are used outside the

classroom. The music practice rooms are an example. Students must get as much practice-time in 10 weeks as they did in 15. Where are they to find the rooms?

Another facility that has been affected is the library. Again, in some classes the same number of students must read the same number of reserve books in two-thirds of the time. The library has had to step up its services to meet the intensified demand. During the first weekend of the term the Librarian had to schedule eight additional helpers. Even so, long lines formed at the circulation desk. The libraries are crowded; one department reported that more term papers were late than ever before; courses requiring field or library research on source materials reported great pressure. The fewer number of weeks, the absence of a mid-term vacation, the greater number and the increased seriousness of the students are factors contributing to the more extensive use of the library.

Adjustments vary

Some courses have adjusted more easily than others to the four-term plan. Botany finds that ten weeks is too short a growing season for some of its demonstrations. Bacteriology finds the longer period between classes to be more suitable for the incubation of bacteria. Some bio-chemistry courses find the 75-minute period better for the completion of certain experiments. Physics reports a preference for shorter class periods. Studio art prefers the 75-minute class. Physical education likes the longer period because of the time required to change clothes. And so the list could continue with pro balancing con. There have been no great surprises in the effect of the plan upon course offerings.

The elimination of a special period for final examinations seems to be generally regretted. Requests for such a period are numerous. Investigations are underway, and it is possible that a final examination period will be re-scheduled in the calendar.

The scholastic picture for the fall term is revealing. If the same per-

centage of students in the baccalaureate program had been given warning or placed on probation at the end of the fall term 1961 as were at the end of the fall semester 1960, the number would have been 4,880. Actually 4,644 students were reported in scholastic difficulty — 236 fewer students than could be expected. On the other hand, 264 more students in the baccalaureate program made the dean's list this fall than would have if the percentage had remained the same as in the fall semester of 1960.

In the two-year programs there was an increase from 80 to 117 students on the dean's list — an increase of 60 per cent.

Ninety-three students in the baccalaureate program earned a perfect 4.0 grade-point average during the fall semester 1960. This fall term, however, 218 students achieved such a record.

These statistics suggest that the four-term plan does not have any noticeably detrimental effect upon scholastic performance, at least in so far as it is measured by student grades.

Exhibit opens

An exhibit of 20th century architectural projects considered too revolutionary to build opens today (Friday) at the HUB gallery and will continue through April 6.

Titled "Visionary Architecture," the exhibit of 74 large photo panels with explanatory text, is being circulated by the Museum of Modern Art, New York, with the aid of a grant from CBS Foundation, Inc. Shown are 45 projects by 30 architects.

Included are designs for underground cities, buildings that incorporate roads and vice versa, and a scheme to decorate and alter the Alps.

Contracts awarded

Contracts totaling \$598,817 have been awarded by the General State Authority for alterations or additions to the Ice Pavilion, Carnegie Building, and Stock Judging Pavilion.

Construction at the Ice Pavilion will consist of closing the ends and sides to expand the uses of the pavilion.

At Carnegie Building, interior areas will be converted for use as a communications media studio and new air handling equipment installed.

The Stock Judging Pavilion across from Borland Building, will be converted to an arena theatre, and a classroom, dressing and costume rooms, and mechanical facilities will be located in a new basement area.

The first job conference on this construction is being held today (Friday).

Senate —

(Continued from page two)

William Joseph, A & L; Milano, Joan, A & L; Moser, Judith Forbes, H Ec; Plundo, Robert Alfred, Ch E; Ruth, Robert David, E E; Stahl, Robert Alan, Psy; Stevens, Marla Jane, A & L; Trimble, Marilyn Ruth, Phys.

SCHOOL ADMINISTRATOR'S (\$200)

Abplanalp, Paul LeRoy, Psy; Bartoletti, Charles Spencer, Phys; Bradshaw, Elmo Francis III, E E; Dreese, John William, E E; Frankhouser, Richard Clair, A & L; Malone, John Irvin, P M; Miller, Carl John, Phys; Prunella, Linda Lee, SecEd; Space, Eleanor, A & L; Yarnell, Gerald Rex, Chem.

GARNER - ROTHROCK MEMORIAL SCHOLARSHIP (\$150)

Davidson, Ronald Alex SecEd.

CHIMES AWARD (\$75)

Bruno, Arleen Marie, EK Ed; Henderson, Virginia Sue, H Ec.

MARY THOMPSON DALE MEMORIAL SCHOLARSHIP (\$100)

Bradley, Isabelle Jane, Ed.

LAWRENCE J. OSTERMAYER MEMORIAL SCHOLARSHIP (\$100)

Burnett, Thomas Walter, E E; Busch, Nancy Eileen, SecEd; Cameron, Laurie W., A & L; Caplan, Vicki Lou, RehEd; Cararie, Robert Lee, C E; Carbon, Duane Francis, Phys; Foianini, Dennis Allen, Dual Degree; Gentile, James Ronald, Psy; Greenwood, Steven Michael, P M; Gulbinsky, Joseph Stephen, AB Sc; Huber, Nancy Jean, Bact; Lemieux, Christine Marie, A & L; Mehan, Mary Joan, EK Ed; Miller, Jesse William, Geog; Radlinski, Ronald Paul, Phys; Rose, Marsha, A & L; Rothermel, Franklin John, P M; Scott, Barbara Jean, Chem; Sokol, Thomas Robert, Arch; Starbird, Susan Evelyn, Phys; Yurchak, Sergei, Ch E; Zukauckas, Anthony Victor, B A.

ETHYL AND BAYARD KUNKLE SCHOLARSHIP (\$250)

Clark, Donn Albert, E E; Duh, Joan Elizabeth, EK Ed; Gilson, Charlotte Ruth, A & L; Hill, Ervin Allen, A E; Houseweart, George Wesley, E Sc; Hultzapple, Nancy

Updegrove, Ph Ed; Johnson, David Wilfred Jr., Cer T; Miller, Franklin John, P M; Miller, Paul Howard, Psy; Tanner, Roger Lee, Chem; Vancko, Robert Michael, A & L; Waskell, Lucy Ann, P M; Worrall, David Paul, E E.

1941 CLASS SCHOLARSHIP (\$125)

Bare, Thomas Michael, Chem; Medoff, Jacklyn, A Art; Wilford, Mary Rowland, AB Sc.

LT. HARRY EDWARD WAGNER SCHOLARSHIP (\$100)

Chelius, Robert Leo, Phys; Cwynar, Daniel Walter, E E; Grossi, Lewis George, Chem; O'Hara, James Eugene, SecEd; Reese, James Douglas, Arch.

HELEN WOOD MORRIS SCHOLARSHIP (\$62.50)

Gaston, Twyla Ann, AB Sc; Hock, Winand Karl, Z E.

JOHN W. WHITE SCHOLARSHIP

Crawford, Lynn Janice, SecEd, \$100; Ditz, Joseph Merle, Ch E, \$150; Reiter, Richard Raymond, Hort, \$200.

ESPY SCHOLARSHIP (\$150)

Blackburn, Robert, Engr.

PHI KAPPA PHI (\$50)

Bauer, Marlene Joan, Ed; Hanna, Steven Rogers, Mn I.

Respectfully submitted,
Durant, Della, *Chairman*

Comments and Recommendations for the Good of the University

President Walker commented on the lists of scholarships. He noted that most of them are relatively small. He emphasized the importance of a larger number of scholarships carrying much larger stipends.

D. H. McKinley reminded the senators of Commencement for the Winter Term on Sunday, March 18, at 2:30 p.m. The next regular meeting of the University Senate will be on Tuesday, April 3, 1962, at 3:55 p.m.; the agenda will be distributed on March 20, 1962. The meeting adjourned at 4:15 p.m.

Robert G. Bernreuter,
Secretary

CALENDAR

Friday, March 16

Lecture by Dr. D. W. Pritchard, director of Chesapeake Bay Institute, the Johns Hopkins University, 7:30 p.m., Mineral Industries Auditorium, on "Oceanographic Problems Associated with the Peaceful Uses of Atomic Energy."

Meeting of College of Agriculture faculty, 3:55 p.m., Room 100 Weaver.

Saturday, March 17

Winter Term classes end, 12:25 p.m.

College of Agriculture Open House program, 10 a.m. to 4 p.m.; exhibits, lectures, guided tours.

Sunday, March 18

Winter Term Commencement Exercises, 2:30 p.m., Recreation Building.

Monday, March 19

Meeting of the faculty, College of Business Administration, 12:30 p.m., Penn State Room, Nittany Lion Inn.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. D. P. Duvall, program on wild flowers and judging by Dr. Leslie P. Greenhill.

College of Business Administration Faculty Seminar, 8:30 a.m. to 4 p.m., Nittany Lion Inn. "Ethics in a Business Society."

Thursday, March 22

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. J. Yahia, National Bureau of Standards, on "Transport Properties of the Oxides of Titanium."

Television listings

(for week of March 19, WFBG-TV, Altoona)

FARM, HOME, AND GARDEN

1 - 1:30 p.m.

Monday — Lura Leitzel, on managing.

Tuesday — Howard Bonser and John Bergstrom, on adjustment conference.

Wednesday — Helen Butler, on balanced meals.

Thursday — June Kohr, on sewing with laminated fabrics.

Friday — Margaret Isenhower, on tasty taters.

faculty BULLETIN

Vol. 49, No. 33 March 16, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Monday, March 26

Students return for advising.

Tuesday, March 27

Registration for Spring Term begins, 8 a.m.

Wednesday, March 28

Meeting of Penn State unit, American Federation of Teachers (AFL-CIO), 7:30 p.m., Room 307 Boneke, open to all faculty and library staff.

Thursday, March 29

Spring Term classes begin, 8 a.m.

Tickets for Artists Series program by Pittsburgh Symphony go on sale at HUB desk, 9 a.m.

Chemistry colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Earl Mutterties, E. I. du Pont de Nemours and Co.

Saturday, March 31

Artists Series program by Pittsburgh Symphony, 8 p.m., Recreation Building.

Television listings

(for week of March 26, WFBG-TV, Altoona)

FARM, HOME, AND GARDEN

1 - 1:30 p.m.

Monday — Clarence Bryner, on corn hybrids.

Tuesday — W. H. Folwell, on the meat show.

Wednesday — Russell Seward, on soil fumigation.

Thursday — Jane Marhefka, on matte frame pictures.

Friday — Paul Reber, on lawn fertilizers.

FOLIO 15

9 - 9:15 a.m.

Wednesday — Fred W. Kniffen on "New Protection for the Consumer."

Thursday — Walter H. Walters, on "Getting the First Big Break," and C. F. Barnes, Jr., on "Do the Wrong People Travel."

Friday — A. W. Hussman, on "New Fuels for New Engines."

FM Station serves varied programs

INCREASED interest in FM (frequency modulation) radio broadcasting in general has resulted in a greater consciousness of the fine programming of the University station, WDFM, reports Dr. Harold E. Nelson, associate professor of speech and advisor to the student-operated station since 1953.

Compared to the majority of commercial FM Stations, WDFM has an extremely varied program schedule, aiming to suit the interests of students, faculty, and townspeople. (The signal is heard for some distance but the audience is thought of as being within a few miles of the campus.) Music — classical, semiclassical, folk, religious, popular, jazz — is supplemented by lectures, talks, and interviews, involving faculty members as well as students, and by special broadcasts such as concerts, and the Graduate School, Liberal Arts, and University Lecture Series.

WDFM's broadcasting schedule begins at 7 p.m. on Monday, Tuesday, Thursday, and Friday; at 6 p.m. on Wednesday; at 2 p.m. on Saturday; and at 5 p.m. on Sunday. Signoff is at midnight Monday through Thursday, 1 a.m. Friday, 2 a.m. Saturday, and midnight Sunday.

Of the 46-hour total air time, 17½ hours (38 per cent) is given over to classical music, including programs each weekday from 10 p.m. to midnight; the Metropolitan Opera broadcasts Saturday from 2-4 p.m.; the Chamber Music program Sunday from 5 to 6 p.m.; The Third programme, from 7 p.m. to midnight Sunday; Masterworks of France, Monday at

7:30 to 8 p.m.; and International Concert Hall from 8 to 9 p.m. Tuesday.

Other musical programs — including light classical, jazz, etc. — constitute 16¼ hours per week, or 35 per cent of the schedule.

The remaining 12 hours per week are devoted to campus activities, news, weather, and special programs such as the following:

Bookmark — Monday, 9:30 p.m., with Ralph W. McComb, University librarian, in talks about the library, books, and reading.

Campus and Religion — Monday, 9:05 p.m., with Dr. C. A. Nelson, assistant coordinator of religious affairs, in a review of religious activities on campus.

Books and Ideas — Tuesday, 9:05 p.m., Dr. Henry Finch, professor of philosophy, reviewing books and commenting.

Opinion 15 — Thursday, 9:30 p.m., with members of the English department faculty analyzing writers and poets.

Chapel Service — Sunday, at 5 p.m., a rebroadcast of the morning's service.

This is the Subject — Thursday, 8 p.m., outstanding lectures and concerts, especially slanted to those unable to hear the original presentation.

The station's cooperation with commercial AM station WMAJ, State College, broadens the contact with the State College audience. The two stations combine from 8 to 10 p.m. Monday through Friday and from 7 to 9 p.m. Saturday, and frequently broadcasts are made stereophonically, usually of concerts.

A brochure explaining the program schedule is available to all faculty and staff members on request. Call UN 5-2381 or write WDFM, 304 Sparks Bldg.

Travel brochure

A one-page brochure describing in general the travel routes and facilities to reach University Park is now available and may be obtained by departments for distribution to visitors by calling UN 5-2522. The brochure also points out how to reach faculty or staff members by telephone and briefly describes the Nittany Lion Inn.

CENTRAL FUND

Applications for grants-in-aid for research from the Central Fund for Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. E. F. Osborn, Vice President for Research.

Applications should be filed with the dean of the college, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$300. In a few instances grants are made for larger sums to meet special needs.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

Foundation in tenth year

THE Penn State Foundation was organized in 1952 with Bernard P. Taylor as executive director, to encourage alumni, business, industry, and other friends of the University to help financially with projects which were unsupported or undersupported by other sources of funds.

In the past nine years, alumni have contributed \$1,616,313.98 and non-alumni, through the Development Fund, a total of \$8,842,727.13. By year, the contributions to the two funds have been as follows:

	ALUMNI FUND	DEVELOPMENT FUND
1952-53	\$187,207.09	15,000.00*
1953-54	135,238.91	261,090.36
1954-55	234,196.79	255,925.35
1955-56	179,070.91	752,497.37
1956-57	176,142.44	178,045.13
1957-58	152,189.77	701,472.09
1958-59†	100,982.89	252,513.01
1959-60	242,797.00	1,891,122.57
1960-61	208,488.18	4,535,061.25

* Incomplete

† Six months only

A comparison of gift support of Penn State with that of other major state universities and Land-Grant colleges (for 1959-60), places the University tenth in total gifts, sixth in annual alumni giving, and eleventh in gifts from non-alumni.

Of some significance in Alumni Fund giving over the past nine years is the fact that donors have averaged nearly \$20 per person and that of the alumni solicited, more than 19 per cent responded. By way of comparison, in 1960 average participation for public institutions was 14.6 per cent of alumni.

The Development Fund, through which non-alumni aid the University, fosters and reports on all non-governmental fund-raising activities of the University, including gifts and grants from individuals, corporations, foundations, and organizations, and also bequests and trust funds from individuals. Since 1952, bequests totalling \$1,597,004 have been received and 34 other bequests in favor of the University have been reported written into wills. Four life trusts have also been made.

In general both alumni and non-alumni give to the University for specific purposes, such as an All-Faith Chapel, special laboratory equipment, religious activities, scholarship and loan funds, or for such projects as furnishing the Hetzel Union Building and aiding the Library in making book acquisitions.

Although the Foundation staff is small, its influence is broadened by

the personal help of many alumni and friends who act as class chairman and solicitors for the Alumni Fund or by those who informally aid the Development Fund by contact with business, industry, foundations, organizations, and individuals.

Robert E. Beam, who was appointed assistant director of the Foundation in 1953 and was named director of the Alumni Fund in 1958, points out that up to 3,000 alumni each year are active in promoting the annual Fund program.

"From time to time," Beam says, "faculty and staff members as well as alumni and friends suggest to us that certain individuals or organizations might give to the University if they were approached. We are anxious to have that kind of help."

Over the past nine years, Alumni Fund gifts have been allocated in the following manner:

All Faith Chapel	\$ 248,154.15
Class Funds	110,920.56
Colleges and Campuses	85,719.95
President's Fund	12,843.50
Retired Staff Assistance Fund	5,255.50
HUB furnishings	57,098.50
Scholarship and loan funds	582,148.01
University Library	22,452.37
University religious activities	55,645.32
Stone Valley Recreation Area	61,375.14
Miscellaneous designations	50,140.42
Unrestricted gifts not allocated	75,334.46
Fund operating costs	248,956.10

\$1,616,313.98

Development Funds were received in 1960-61 in the following categories, more or less typical of other years as well, with the exception of the Quehanna Reactor gift:

Special Projects (research, etc.)	\$1,081,759.48
Quehanna reactor	3,169,500.00
Scholarships	151,472.34
Loan funds	2,013.91
Library	10,543.35
Religious programs	3,685.00
General Education	8,705.00
President's Fund	5,500.00
Miscellaneous*	101,882.17
Total	\$4,533,061.25

(*The Miscellaneous grouping includes a bequest of \$87,677.17 by Fred A. Bryan for use as the University desired, and smaller amounts for special research and instruction projects not included under special projects.)

Of relatively recent origin is the effort to develop the "Eminent Scholars Program," which is designed to bring to Penn State outstanding scholars as members of the faculty. Industry is asked to support the scholar for a period of five years, on the basis that the University is unable to do so under existing salary provisions. The first offer to aid this program was made by the Rockwell Mfg. Co., of Pittsburgh, of which W. F. Rockwell, Jr., '35, is president, which will provide \$125,000 for a five-year period to establish a distinguished professorship in engineering. The person to fill this position is expected to be announced soon.

As side effects of the Eminent Scholars Program, in addition to lending prestige to both the University and the industry, is the help in the form of fellowships or grants it is reasonable to expect with such outstanding persons on the staff.

Penn State's need for private giving is being accelerated by a number of recent trends: (1) the commitment to increase enrollment to 35,000 by 1970; (2) the need to develop Commonwealth Campuses for teaching much of the additional enrollment; (3) growing need of financial aid by students from low income families; (4) inadequacy of such general facilities as auditorium, student union, and gymnasium to handle existing enrollments; and (5) need for supplementary funds to augment the quality of existing programs such as distinguished professorships, special scholarships, extraordinary books, equipment, and supplies, etc.

"The best assurance we have that private giving will expand," says Taylor, "is to continue to make good use of all the moneys we get."

Alumni college

Robert C. Hill, former Ambassador to Mexico, will be featured speaker at the opening session of the annual Spring Alumni College to be held in Philadelphia, April 13 and 14. Alumni of a five-county area around Philadelphia will enroll for the College, which this year will consider U.S.-Latin American relations.

Other participants in the two-day program will be Dr. Henry Brodie, director, Office of International Resources, Department of State; Thorsten V. Kalijarvi, former ambassador to El Salvador; and the following faculty members: Dr. William H. Gray, William M. Hench, Cyril F. Hager, Ralph W. Condee, Robert E. O'Brien, and H. William Simington.

Teaching Awards Aided

THE President's Award for Outstanding Teaching, customarily presented at Commencement Exercises in June each year, was initiated in 1958 with a major grant of \$500 from the local chapter of Sigma Tau, national engineering honorary society, small gifts from alumni, and a contribution from the President's Fund to make up the balance of the \$1,000 award.

Dr. Kinsley Smith received the first award given "to recognize outstanding service, encourage superior teaching, and advance the cause of higher education generally."

The grant by Sigma Tau, although designed for one year, made possible the entire project of recognizing faculty members for their service in teaching. Since 1959, the program has been financed in a variety of ways, aided principally by grants each year by the Christian R. and Mary F. Lindback Foundation. Mr. Lindback was for many years president of Abbott Dairies, Inc., of Philadelphia. After his death in 1950, the Foundation was set up, as a result of the terms of his will, to aid colleges and universities by providing means to increase teacher salaries. The award suggestion made by the University was readily accepted by the trustees of the estate and since 1959 the Foundation has provided \$6,000.

Alumni have also contributed, through a special gift program of the Alumni Fund, a total of \$456 in the past three years, even with little publicity attached to the program.

Succeeding Dr. Smith as recipients of the Award have been Dr. Kent Forster, professor of European history, in 1959; Dr. Harold E. Dickson, professor of history of art and architecture, in 1960; and Dr. Harold I. Tarpley, professor of electrical engi-

neering, and Dr. Henry A. Finch, professor of philosophy, joint winners in 1961.

In both 1959 and 1960 citations and awards of \$100 were given to other members of the faculty for "excellence in teaching" while Dr. Forster and Dr. Dickson were granted the President's Award for Superior Teaching.

Cited in 1959 were: Paul H. Margolf, Agriculture; R. Hadly Waters, Business Administration; Mary L. Willard, Chemistry and Physics; James W. Dunlop, Education; H. I. Tarpley, Engineering and Architecture; Della J. Avery, Home Economics; H. Mauzee Davis, Mineral Industries; Eugen C. Bischoff, Physical Education and Athletics.

In 1960, citations were presented to John W. Breneman, engineering mechanics; Hazel F. Daniels, elementary education; Norman C. Deno, chemistry; Charles C. Dillio, mechanical engineering; Gilma M. Olson, foods and nutrition; Reed T. Phalan, business law; John J. Schanz, Jr., mineral economics; Isador M. Sheffer, mathematics; Charles M. Spicdel, physical education; and James E. Wright, Jr., genetics.

The method of selection of award winners has varied from time to time and there is not as yet a formalized system. In general, as a Senate subcommittee recommended in 1957, the award is given only to a member of the faculty who has been teaching for at least ten years. Customarily, selections are made from among nominations submitted by department heads who transmit them through their respective deans to the vice president for resident education. At one time Penn State graduates who had been J. G. White award or scholarship winners were asked to make nominations.

Artists series

Tickets for the Pittsburgh Symphony Orchestra performance on the Artists Series will go on sale to the public at 9 a.m. Thursday, March 29 at the HUB desk.

The concert will be given Saturday, March 31, at 8 p.m. in Recreation Building.

Included in the program are Berlioz's "Roman Carnival Overture"; Mendelssohn's "Scotch" symphony; and Bartok's "Concerto for Orchestra."

The next program in the Series will be given by Isaac Stern April 27. A debate by Sen. Hubert Humphrey and Sen. Karl E. Mundt will be held April 14.

Study abroad

Seventy one students leave Monday for the Universities of Cologne and Strasbourg under the new Study Abroad Program.

Dr. Dagobert de Levie, director of the program, will accompany the group to the University of Cologne and will teach a course in German literature during the ten-week term.

Accompanying the group to the University of Strasbourg, where 47 of the 71 will study, is Dr. Margaret Matson, associate professor of sociology.

The students will live in the homes of German and French families during their stay.

Items of Interest

Articles and Papers

- ADDISON, ARNOLD, Ordnance Research Lab. and YEAGLEY, H. L. JR., maintenance and utilities, with DEER, T. B., an article, "A Method of Performance Evaluation for Engineers and Scientists," in the IRE Transactions on Engineering Management.
- ATWATER, H. A., electrical engineering, an article on "Apparent Distortion of Relativistically-Moving Objects" in the February issue of the Journal of the Optical Society of America.
- BEALER, R. C. and WILLITS, F. K., an article, "Rural Youth, A Case Study in Rebellionism" in Annals, the journal of the AAPSS.
- BERNARD, JESSIE, sociology, on leave, the lead article titled "Overview" in the recent issue of Annals, the publication of the American Academy of Political and Social Science; also editor.
- BREWSTER, R. W., political science, a paper on the Administrative Tribunals of France before the Phila. chapter of the American Society for Public Administration.
- BROWN, J. L., JR., Ordnance Research Lab., a paper in the February issue of the Proceedings of the I.R.E., on "The Delta Function."
- a paper in the January issue of I.R.E. Transactions on Automatic Control, on "Asymmetric Non-Mean-Square Error Criteria."
- BOYLE, W. W., entomology, an article, "A New Species of Triphax from Arizona (Coleoptera: Erotylidae)" in the April issue of Pan-Pacific Entomologist.
- CARPENTER, C. R. and GREENHILL, L. P., DARS, an article on "Facilities for Instructional Television" in the publication Educational Television published by the Stanford University Institute for Communication Research.
- CARPENTER, C. R., DARS, a paper on "Suggestions for Measuring Faculty Research Productivity" at the Conference of Institutional Research Directors.
- a paper on "Suggestions for the Designs of New Colleges and Universities" at the 17th National Conference on Higher Education.
- DANSEREAU, H. K., sociology, an article on "Work and the Teenager" in Annals, journal of the AAPSS.
- DAVISON, H. M., educational research, a paper on "A General Theory for the Measurement of Effectiveness of an Administrative Act," at the American Educational Research Association convention in Atlantic City.
- DILLER, N. R., Management Training, an article in the Spring issue of National Association of Suggestion Systems, on "Making Your Suggestion Systems Work."
- DUNNE, H. W., veterinary science, and GUSS, S. B., vet science extension, with M. ALIBASOGLU, a paper on "Naturally Occurring Arteriosclerosis in Cattle Infected with John's Disease" in the January issue of American Journal of Veterinary Science.
- GOLATZ, H. J., industrial relations, an article on "Probing the 'Institute Glow'" in the Winter 1962 issue of Adult Education, journal of the Adult Education Association of the U. S. A.
- GUEST, L. P., psychology, an article on "A Comparison of Two-Choice and Four-Choice Questions" in the Journal of Advertising Research, 1962.
- a chapter in the Annual Review of Psychology, on "Consumer Analysis."



At the newly purchased site four miles from Pottsville, this building will probably someday serve the Penn State Center as administrative and office building.

The Pottsville Center

On Feb. 20, Schuylkill County Commissioners approved sale of a 39-acre tract of land to the University to make possible the relocation and expansion of the Pottsville Center some time in the future.

The step is further evidence of the significant role the Center has played in the area since it was organized in 1934 at the request of the School District, Ministerium, and service clubs of Pottsville. There are no other colleges or universities in the immediate area, the closest being in Reading, 30 miles away, and yet there is a natural interest in higher education in Schuylkill, Northumberland, and Carbon counties served by the Center.

Economically, Pottsville has depended on coal money in the past, although the mining is done some miles away. South of the city is an agricultural area, and the student body at the Center reflects the mixture of urban and rural influences of the Schuylkill complex.



H. I. Herring

Three-fifths of the 230 baccalaureate and associate degree students at the Center commute, from distances of up to 35 miles, and it has become an accepted way of going to college in the area. Moving the Center four miles from the city of Pottsville is expected to have no adverse effect on enrollment applications, but on the contrary may alleviate the parking problem which plagues urban schools.

Enrollment in baccalaureate programs in engineering, education, business administration, and chemistry, averages 180 each year and in associate degree programs in drafting and design technology about 50. Science and engineering have always been strong and at times nearly 70 per cent of the students have been enrolled in the two fields.

The Center presently occupies two buildings in the heart of the city, an administration building with offices, library, three classrooms and student lounge, and a classroom and laboratory building two blocks away, leased from the school district. On the site of the future campus, which was formerly a hospital, are several usable buildings.

The Pottsville faculty includes 20 full-time and three part-time members, eight of whom have taught more than 15 years at the Center. Henry I. Herring, director, is a 1934 Penn State graduate with a bachelor of arts in mathematics. The following year he obtained a master's degree, also in mathematics, and began his teaching career at the Cressona schools. After four years in the Army Air Force, he was named instructor in math at the Center and in 1950 succeeded T. Stewart Goas as administrative head.

Eight of the faculty members have spent more than 20 years in the educational field and six full-time and three part-time staff members are Penn State degree-holders. Many other college and universities are represented and some have had considerable industrial or business experience before joining the Pottsville staff.

A faculty organization holds regular meetings to iron out academic problems, familiarize themselves with administrative procedures, student policies, etc., and the same organization serves to plan social functions for the faculty.

In spite of the commuting nature of the student body, it supports such activities as a newspaper, intramural sports, clubs in mathematics, international relations, library, literature, photography, Spanish, German, engineering, and business administration, as well as Pershing Rifles and Drum and Bugle Corps. The male-to-female ratio is currently about 6 to 1, lowest it has been for many years. The outlook is for the ratio to drop even more.

Pottsville is a city of about 22,000 but the shopping area is said to include a population about five times that large. If there is any population trend, it is downward, and yet the community has none of the earmarks of a depressed area. The latest move on the part of the Advisory Board for the Center would seem to forecast an active future in an educational way in the area.

faculty BULLETIN

Vol. 49, No. 34 March 23, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Master plan

President Eric A. Walker, who attended the session at which Superintendent of Public Instruction Charles H. Boehm presented his master plan for higher education in Pennsylvania last week, commented as follows on the program:

"Until there has been opportunity to study the plan more fully, I hesitate to comment on its details. I am happy, however, that Dr. Boehm has had the courage and wisdom to propose a master plan for higher education. Long range planning is long overdue in Pennsylvania.

"There is no reason to believe that our own long range plan cannot be coordinated with this program. In Dr. Boehm's outline, for example, it is proposed that Penn State take the lead in research and continuing education. Both are areas in which we have long experience and for many years we have accepted responsibility for agricultural and other research in the Commonwealth.

"There is evidence, also, that our two-year Commonwealth Campus program can be effectively coordinated with the general plan for the State. I will have more to say on this subject, however, after I have had opportunity to study the total program.

"No one can quarrel with the development of a strong library system, or with the idea of providing a college education for all those who can profit from it.

"One cause for concern in the program is that no apparent effort has been made to fit in the private colleges and universities."

Adviser award established

THROUGH a contribution by the Pennsylvania State University Engineering Association, an annual award of at least \$200 will be made to a member of the faculty of the College of Engineering and Architecture in recognition of outstanding service as an adviser to undergraduate students.

The award will be made at the annual Honors Day program of the College, which this year will be held May 29. The award is but one of a number of projects now being undertaken by the Association, which is less than two years old, but which has already shown promise of significant usefulness to the University, Association members, students in engineering, and to the profession.

More than 500 alumni of the College are already members of the Association, a division of the Alumni Association of the University. Their very modest dues not only are used for projects like the adviser's award but also provide at present for the following activities:

1. Preparation and publication of an Association Directory.

2. Provide a year's subscription to each member to "Spectrum," the student science and engineering publication. Also to provide information for two pages of the publication.

3. Assist in the Engineering Open House during Alumni Homecoming, providing refreshments, preparing special exhibits, and conducting tours.

4. Provide a book in the Engineering Library and purchase "peripheral" books, such as those on ethics, unionism, patent law, etc.

5. Contribute to each graduating senior a packet of materials which includes publications of the Engineering Council for Professional Development.

6. Contribute to the discretionary fund of the budget of the Dean of the College to provide assistance for causes for which no University financing is available.

7. Gather information about members, and their outstanding achievements, for use in publications.

The award to outstanding advisers of the College was voted by a committee of the Association from a suggestion by Dean M. A. Williamson, to encourage and recognize members of the faculty of the College who have served predominantly as teachers of undergraduate students and as members of the advisory staffs of their departments with regular term assignments of advisory duties.

Each department head in the college will nominate a candidate for the award, and other nominations will be made by the two assistant deans of

(Continued on page four)

Engineering science

The Engineering Science curriculum was established in 1953 "to provide a broad training in the basic physical sciences and in mathematics." It is designed to educate students wishing to enter the fields of research, development, and other creative aspects of engineering.

Enrollment in the curriculum is today limited to students with a B or better average in their first three terms and to those selected by the faculty. To remain in the curriculum, the students must maintain a 2.5 average or higher.

The first class of 14 was graduated in 1956 and since then nearly 75 others have been granted degrees. The College of Engineering and Architecture has made a survey of the graduates of the 1956-1960 classes, with the following results:

a. Of the 14 graduates in 1956, 11 have been granted master's degrees, one has obtained doctorate, and three others are working for doctorates.

b. Of the 78 graduates of the five classes, 26 have already completed master's degree work, 21 others are currently working on the master's, and 18 others are working on doctorates.

c. Over 70 per cent have maintained their interest in engineering, another 16 per cent are currently concerned with physics or mathematics.

DOCTORAL LOANS

The Engineering Predoctoral Forgivable Loan Committee is welcoming applications from all graduate students in engineering. This loan program is supported by a grant from The Ford Foundation to encourage qualified people to enter the engineering teaching profession.

Details on eligibility may be obtained from the department head or advisor. The selection of the eligible candidates will be based on the degree of likelihood of excellent performance of the applicant both as a doctoral candidate and as a teacher of engineering. An applicant must need the loan to be able to pursue the doctorate at an educationally efficient pace.

Complete forgiveness of the debt is made for employment as a full-time faculty member in the U.S. or Canada upon the termination of graduate study.

The application deadline is Saturday noon, March 31. Applications must be filed by that date in the Dean's Office, 101 Hammond Building, University Park, Pennsylvania.



A. M. Wellington, professor of counseling in education, with class of master's degree candidates, watch via television as classmate conducts interview.

Successful use

Television aids counseling

IN THE education of future counselors, on the master's or doctor's degree level, it is essential that the student get as much personal experience as possible in the act of counseling and that there is ample opportunity for criticism of his work.

At most colleges and universities, the methods of criticism are limited to what can be done by personal observation through one-way windows, by listening to tape recordings of the interview, and by movies, which are extremely expensive.

To these methods, the Penn State faculty in Counseling in Education has added television, with such unusual success that colleges and universities throughout the country are asking for information and help in setting up similar facilities.

Dr. George R. Hudson, director of the program, and the faculty of Prof. Arthur M. Wellington and Dr. Kenneth W. Hylbert are accustomed to scratching for physical facilities and equipment (see Faculty Bulletin, Feb. 17, 1961) and freely admit that had it not been for the cooperation of the Division of Academic Research and Services in providing two small cameras and two large television receivers, the entire project would have fallen through. Total cost of this equipment, new, is about \$5,000.

The cameras were placed in two closets (the facilities are on the top floor of McAllister Building, formerly a dormitory) with their "eyes" looking

into the interview room through small apertures in the door. One camera is focussed on the interviewer's face, the other takes in both persons.

"We consider it important to see both the counselor and counselee," says Dr. Hudson, "so that their posture, body movement, and facial expression can be observed."

The observations are made not only by the instructor but also by other students, limited in number only by the size of the observation room. The cameras are operated by remote control and no camera crews or technicians are needed.

Tape recordings

Permanent records of the interviews are made via tape recording, to give the student an opportunity to hear himself and consult with his supervisor at their leisure. Every effort is made to conduct the criticism immediately after the interview.

Counseling in Education uses a pyramid teaching procedure, with

doctoral candidates, supervised by a staff member, in turn supervising the work of a number of master's degree candidates. Also the "buddy" system is used so that at least once a week a student gets the personal criticism of one of his classmates. Supervisors are usually present during observation periods to guide group learning.

The counselees are volunteers from among the student body and from schools in the area. All are made completely aware of the fact that they will be observed and a recording made of the interview. The arrangement is so ingeniously camouflaged that both interviewee and interviewer forget that they are being observed after a short interval.

More observations

Each of the counselors is expected to get 15-20 opportunities during a term for interview, although not all are on television. He observes others at work about as frequently.

"Through television," says Wellington, "we are able to offer each counselor many more observations than is ordinarily possible with one-way windows, since 30 or more students can watch at the same time.

"We also found that without going to considerable expense it was difficult to soundproof a room so that supervisors could make comments to a group on one side of the wall without disturbing the interview on the other side. With television, we don't need to be on the other side of the wall."

Basic purpose of the interview training is to improve the counselor's ability to get information and establish a good rapport with the interviewee. Sometimes a simple, but to some people irritating, mannerism such as pulling on the ear is developed by a counselor without realizing it. Or he may avert his eyes to a corner of the room. Vocally there are also many pitfalls to be avoided and few trainees do so naturally.

Overall, the cost of television use in this manner is extremely small after the initial investment. One other large state university leases television facilities for part-time use at \$2,000 per month. Maintenance of the Penn State facility is considerably less.

There are approximately 500 colleges and universities offering graduate degrees in counselor education. 126 giving doctoral work. It is no coincidence that Penn State graduates are in great demand because the faculty here has continually sought to improve instructional techniques. Television is only one of a number of methods they have used.

Items of Interest

THE ARTS

- CATALDO, J. W., art education, exhibition of representative work in lettering and graphic design at the Van Rensselaer Art Gallery, Cornell University.
- CEIGA, G. E., music, featured soloist on organ at concert at Drexel Institute of Technology, Feb. 16.
- CEIGA, GEORGE, music, guest organist at the annual band concert at Drexel Institute of Technology, under direction of Clyde S. Shive, Jr.
- GUNTHER, G. W., Altoona, art, a painting accepted for exhibition by the Museum of Modern Art soon to open in New York.
- HELLER, JULES, School of the Arts, exhibit of a lithograph, "Landscape for Nuclear Living" at The Print Club, Feb. 12-March 2.
- PAPPAS, GEORGE, art and art education, exhibited a pen and ink drawing titled "Nauset Light" in the First Biennial Exhibition of Drawings at the St. Paul Gallery and School of Art, St. Paul, Minn.
- PHILLIPS, MATTHEW, English, on leave from Ogontz, exhibited 18 monotypes at Swarthmore College.
- RAVER, LEONARD, music, a performance at the harpsichord in instrumental quartet of 18th and 20th century chamber works at Carnegie Recital Hall Dec. 8.
- SHOBAKEN, BRUCE, art, a pen and ink drawing titled "Tree" exhibited in the First Biennial Exhibition of Drawings at the St. Paul Gallery and School of Art, St. Paul, Minn.

ARTICLES AND PAPERS

- HEXNER, E. P., business administration, an article on "Das Problem der Internationalen Liquiditat und die Inanspruchnahme der Finanziellen Mittel des Internationalen Wharungsfonds durch die Vereinigten Staaten" in the Vol. 87, No. 2, issue of Weltwirtschaftliches Archiv.
- KUSPIT, D. B., philosophy, an article titled "Die Welt in 20 Rubriken" (report on Time Magazine for the German Student Press Association) in Diskus, Frankfurt-am-Main, German, December issue.
- MARES, V. E., economics, an article on "Key to Europe: West Germany," in the March issue of Current History.
- MCGEARY, M. N., political science, a paper on "How Can Pennsylvania Improve Personnel Administration" before the Penna. Citizens Conference on State Issues, in Harrisburg.
- MEYER, W. E., mechanical engineering, and KUMMER, H. W., a paper on "Mechanisms of Force Transmission between Tire and Road" at the Automobile Week meetings of the Society of Automotive Engineers, in Detroit.
- MINER, T. L., engineering library, an article on "The EJC Information Symposium — A Review," in the March issue of the Journal of Engineering Education.
- MORGAN, WINONA, child development and family relationships, a paper on "The Influence of Home and Community on Children's Food Habits."
- MOSER, G. M., Romance languages, an article on "16th Century Portuguese Finds Korea Fascinating" in the February issue of Koran Report.

- PANOFKY, H. A., meteorology, a paper on "The Kinetic Energy Budget on the Lowest 100 Meters" at the annual meetings of the American Meteorological Society.
- PEARSON, D. S., electrical engineering, an article on "Forced Convection" in the January issue of "Design News."
- PIRYBYLA, J. S., economics, an article on "Soviet Aid to Foreign Students" in the Winter issue of "Queen's Quarterly."
- RUNG, DONALD, mathematics, a paper on "Order of Functions Holomorphic in the Unit Disk," at the joint meetings of the American Mathematics Society and the Mathematical Association of America.
- SIEMICK, J. M., industrial education, an article on "Should Teaching Methods for Industrial Arts Change?" in the January issue of Industrial Arts and Vocational Education.
- SLOBOD, R. L., petroleum and natural gas engineering, with McDonald, R. E., a paper on "Modification of the Alcohol Slug Process for Application to the Bradford Reservoir," in the January issue of the Producers' Monthly.
- SNOWDEN, J. C., engineering research, articles in the October and November issues of the Journal of the Acoustical Society of America titled "Response of Nonlinear Shock Mountings to Transient Foundation Displacements" and "Reduction of the Response to Vibration of Structures Possessing Finite Mechanical Impedance."
- SUN, S. C., mineral preparation, papers at the annual meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers, with J. W. Fetterman, New Jersey Zinc Co., on "Alumina Extraction from a Pennsylvania Diaspore Clay by an Ammonium Sulfate Process" and "Sulfuric Acid Leaching of Some South Dakota Lignites."
- THEODORSON, G. A., sociology, an article titled "The Function of Hostility in Small Groups" in the February issue of the Journal of Social Psychology.
- WILLOWER, D. J., educational services, a paper in the current issue of the Peabody Journal of Education, on the role of values in the administrative process.
- a paper on "Concept Development and Research" as part of a monograph on research in educational administration published by the University Council for Educational Administration.

ELECTED AND APPOINTED

- BRITTON, J. H., child development and family relationships, appointed to the Advisory Board on Older Workers of the Commonwealth.
- CARPENTER, C. R., DARS, appointed to the Primate Committee of the National Academy of Sciences, Washington.
- HEIDE, EUGENE, New Kensington, appointed to the Labor-Management-Citizens Committee of the New Kensington area as public member.
- SMITH, W. S., theatre arts, appointed judge of the Annual National Collegiate Playwriting Contest, sponsored by Samuel French, Inc.

PUBLICATIONS

- CARPENTER, C. R., DARS, a chapter in the book, "Roots of Behavior" edited by Dr. E. L. Bliss, on "Field Studies of Primate Population."
- DAVIS, D. E., zoology, a chapter in the book, "Roots of Behavior," edited by Dr. E. L. Bliss, on "Psychology of Gangs."

- ALBRICHT, G. H., architectural engineering, a talk on "Structural and Mechanical Problems Related to the Design of Buildings in the Nuclear Age," at the conference of the Eastern Regional Group of the National Association of Physical Plant Administration.
- a talk at Carrier Research and Development Forum on "Engineering Problems in the Design of Blast and Fallout Shelters."
- lecture at the three-day Fallout Shelter workshop at Syracuse, N. Y., sponsored by Syracuse University School of Architecture and the Central New York Chapter of the American Institute of Architects.
- ANDREWS, FRANCES M., music education, talks at the Music Educators National Conference in Chicago, on "Issues in Music Education" and research reports on "Effect of Trends in Elementary Schools on Music Education, Grades 1-6" and on "Attitudes of Eastern Division MENC Members Toward Convention Procedures."
- CUTLER, H. A., President's office, a panel on the topic, "The Social Structure and Inner Dynamics of a College in the Process of Change" at the 17th National Conference on Higher Education.
- DILLER, N. R., Management Training, a talk at the Area Management Workshop at Lima, Ohio, sponsored by Ex-Cello Corporation, on "Nondirective Techniques in Employee-Centered Supervision."
- JORDAN, JOSEPH, chemistry, on leave, lectures before the Oxford University Inorganic Chemistry Laboratory staff, the Postgraduate Medical School of the University of London, and the Imperial College of Science and Technology in London.
- LANCASTER, O. E., engineering education, a talk on "Effective Teaching in Engineering Subjects," at the College of Engineering, University of Illinois.
- a talk on "Research in Engineering Education" at the dinner for young engineers at the University of Virginia.
- LESAGE, LAURENT, Romance languages, a talk on new French fiction before the Alliance Francaise, University of Pittsburgh.
- LOW, W. J., art and architectural history, a lecture on "American Painting in the 19th Century — From Allston to Weir," at the opening of an exhibition of 19th century American painting at Bucknell University.
- NEWMAN, MONROE, economics, a talk on "From Here to Prosperity" at an assembly program of the Wyomissing Center.
- OSBORNE, M. S., architecture, a talk before the Home Builders Association in Williamsport on recent developments in residential building.
- a talk before the West Chester Chamber of Commerce on the rehabilitation of the community's central business district.
- RATHMELL, J. K., floriculture extension, a talk on "Geranium Culture" before the University of Maryland Florist Day meeting.
- STRONG, E. P., Business Administration, a talk before the DuBois Junior Chamber of Commerce on leadership in the business community.
- TAMMEN, JAMES, plant pathology, a talk on "New Advances in Plant Disease Control" at the University of Maryland Florist Day program.
- WARREN, J. M., psychology, a lecture at Massachusetts Institute of Technology on "Unilateral Lesions in Association Cortex and Behavior in Rhesus Monkeys."
- WASHKO, J. B., agronomy, a seminar on the topic, "The Roles of Forage Testing and State Grassland Councils in Fostering Improvement of Forage Quality" at Purdue University and the University of Illinois.

(Continued from page one)

the College. In addition, student opinion will be revealed by the votes of seniors.

A Committee of Judges appointed by the Dean will make the final selection, based on a statement of the functions and duties of an adviser which a special committee of the College prepared in 1960.

The present officers of the Association are: William O. Baker, '48, president; Harley Swift, '14 executive vice president; Benjamin W. Niebel '39, secretary-treasurer; and a 12-man Board of Directors including C. R. Ammerman, Ferd Dieffenbach, Paul B. Erdman, Robert E. Felsburg, B. C. Jones, J. Orvis Keller, H. Leonard Krouse, A. S. Marburger, T. Kenneth Reeves, Ernest R. Shultz, Earl B. Stavely, and Grey W. Tressler. President Walker and Dean Williamson are honorary officers.

The Association serves as a rallying point for engineering graduates. For example, one of the values of the directory will be to help recent graduates become settled in a new community through contact with Association members already located there. In addition, the directory will make contact easier between members scattered throughout the country, for both professional and social advantages.

All members of the Engineering Association must also be members of Alumni Association and each association is expected to contribute to the effectiveness of the other. Penn State now has more than 12,200 living engineering graduates.

Juniata choir

The Juniata College Choir will present a concert in the Helen Eakin Eisenhower Chapel Sunday, April 1, at 4 p.m. Professor Donald S. Johnson, College organist and chairman of the department of music is the conductor of the group.

The program will include works of Gibbons, Pachelbel, Bach, Berger, Matthews, and Lovelace and five movements from "The Peaceable Kingdom", by Randall Thompson.

Aquacade

Naiads, the synchronized swimming group of Women's Recreation Association, will present the annual "Aquacade" April 12, 13, and 14 at the White Building pool at 8 p.m. Tickets may be obtained at the main office in White Building from 2-5 p.m. Monday, Tuesday, and Wednesday, April 9, 10, and 11.

Mail service changes made

Recent changes in the campus mail delivery methods has made possible improvement in service to most parts of the campus. With new equipment, personnel of the mail service are now able to maintain a rigid schedule which may result in delivery of a letter or parcel within a few hours.

Among the schedules of the service are the following:

1. A letter addressed to a building on the same route and served later on the trip will be delivered in the same half day. For example, on Route 2, mail picked up at Hammond Building at 9:01 a.m. will reach Armsby at 10:26 a.m.

2. For all buildings served twice a day, mail picked up in the morning will reach the destination in the after-

noon mail or if picked up in the afternoon, will reach the destination the next morning. Example, mail picked up at 10:39 a.m. at Wagner reaches Willard at 2:08 p.m. Also, mail picked up at Old Main at 2:28 p.m. reaches Pattee Library at 10:12 a.m. the next day. (Note, however, that there is no mail delivery Saturday, Sunday, or holidays.)

3. For buildings served once a day, mail picked up one day is delivered no later than the next business day.

Delivery men now case the mail on the route in special trucks purchased recently.

The complete mail service pickup schedule is printed below for convenience of faculty members in planning their campus mailings:

INTERDEPARTMENTAL MAIL DELIVERY SCHEDULE

ROUTE 1			ROUTE 2		
Building	A.M.	P.M.	Building	A.M.	P.M.
Atherton	8:17	---	Agri. Ed.	10:38	3:12
Boucke	9:00	2:01	Agri. Eng.	8:34	12:59
Burrows	9:12	2:14	Armory	9:37	2:05
Dairy Breeding Res.	10:34	---	Armsby	10:26	3:00
East Hall	10:18	---	Berland	8:29	12:54
Farm 3	10:29	---	Buckhout	10:47	3:21
Forestry	10:50	1:36	Carnegie	9:55	2:23
Frear	8:57	1:58	Chem. Eng.	10:43	3:17
Graduate Bldg.	9:18	2:20	Conference Center	---	3:25
Grad. Circle Apts.	---	1:09	Cont. Educ.	9:23	1:51
Grange	8:07	---	Eisenhower Chapel	8:38	1:06
Hetzl Union Bldg.	10:06	3:12	Elec. Eng.	9:19	1:47
Home Econ.	10:01	3:03	Foods	8:45	1:18
McAllister	9:46	2:48	Hammond	9:01	1:27
McElwain	8:38	---	Health Center	8:23	12:48
New Dairy Barn	10:26	---	Hunt	---	2:46
Nittany 20	---	1:15	Mech. Eng.	9:16	1:44
Old Dairy Barn	10:46	1:32	Min. Ind.	9:28	1:56
Old Main	9:26	2:28	Motion Pict. Studio	---	1:40
Osmond	8:53	1:54	Nittany Lion Inn	---	1:14
Pollock A	8:34	---	Ordinance Res.	8:51	1:24
Pollock Dining	10:11	12:55	Pattee	10:12	2:48
Reactor	---	1:03	Patterson	10:33	3:07
Redifer	8:23	---	Recreation	10:07	2:35
Research Unit 1	---	1:11	Service	8:49	1:22
Schwab	9:22	2:24	Sparks	9:59	2:27
Simmons	8:29	---	Special Educ.	---	1:10
Spruce	---	2:08	Waring	---	2:40
Surplus & Salvage	10:23	---	Warnock	---	1:02
Telephone	9:07	2:09	Water Tower	---	1:12
Temporary	8:10	12:49	Weaver	10:22	2:56
Tyson	10:54	1:40	Willard	9:40	2:08
U.S. Pasture Res.	---	1:26			
Vet. Sci.	10:43	1:29			
Wagner	10:39	1:23			
White	---	12:50			
Whitmore	8:45	1:46			

Landscape talk

Garrett Eckbo, prominent landscape architect, will speak on "Landscape for Living" Tuesday, April 3, in Room 10 Sparks, sponsored by the departments of landscape architecture and architecture and the School of the Arts. The talk will be of interest to designers and students of design.

Eckbo will visit the campus Monday through Wednesday.

Vice president

A speech by Vice President Lyndon B. Johnson will feature the annual Career Day of the College of Business Administration Tuesday, April 10. He will speak at 8 p.m. in Schwab Auditorium on a topic as yet unannounced.

The day-long program will attract business and industrial leaders from Pennsylvania and neighboring states as speakers.

NEWS IN BRIEF

► **COMMENCEMENT:** A total of 508 degrees were conferred at Commencement Exercises March 18, including 391 baccalaureate and 107 advanced degrees. There were 28 doctorates and 79 master's degrees awarded. Of the seniors receiving degrees 19 were graduated with honors and 11 received reserve commissions in the Army, Navy, or Air Force.

► **LOAN FUND:** The Class of 1912 has established a loan fund to aid needy students, the loans to be made on the basis of need and character. Scholarship requirements, however, are less significant than for other loan funds in view of the desire to aid students whose grades might not be high because they found it necessary to work to meet college expenses.

► **MILESTONE:** April 1 will mark the conclusion of the 128th year of free public education. Gov. Lawrence has proclaimed April 1, 1962 as Free School Day and urges that the period from April 1 to 11 be observed as a period of appreciation for the untiring efforts of the Commonwealth's educators.

► **ENROLLMENT:** About 450 new students, including nearly 100 freshmen, were admitted to the University Park campus this week and about 150 to the Commonwealth Campuses.

► **EXHIBIT:** The exhibit titled "Visionary Architecture," which opened this week in the HUB gallery, will continue on display until April 7. Sponsored by the department of architecture, the display is being circulated by the Museum of Modern Art, New York, with the aid of a grant by CBS Foundation, Inc. Photos of projects considered too revolutionary to build are included.

► **DIRECTIONAL:** Signs bearing the name of the University will be erected soon at major road intersections throughout this area by the State Department of Highways. Signs of the expressway type will be used, as a service to campus-bound motorists.

► **APPOINTED:** Helmut J. Golatz, associate professor of industrial relations and president of the Pennsylvania Federation of Teachers, has been appointed by Governor Lawrence to the Executive Board of the Governor's Committee of 100 for Better Education.

► **WINNER:** William Farrell, graduate assistant in art education, has been awarded the Associate Artists Patrons Fund prize for oil for his painting "Bowater Court," the award was \$300.

CALENDAR

Friday, March 30

India Weekend program, banquet at Lutheran Student Center, 6:30 p.m.; Indian dance by Mrs. B. Chari, Toledo, Ohio; talk by Honorable A. K. Ray, head of Chancery, Embassy of India, Washington, D.C., on "India's Role as a Non-Aligned Nation."

Saturday, March 31

Artists Series program by the Pittsburgh Symphony Orchestra, 8 p.m., Recreation Building.

India Weekend program, display in HUB cardroom of Indian crafts, film at 1:30 p.m. in HUB assembly room, tea and discussion on contemporary India, 3:15 p.m. in Chapel lounge.

Sunday, April 1

Protestant Service of Worship, 9 a.m., The Chapel. Genevieve Dilts.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger Shinn, professor of Christian Ethics, Union Theological Seminary, on "Two Gods or One."

Colloquium sponsored by University Christian Association and Penn State Newman Club. Theme: "You and the Communist Challenge." 8 p.m., Schwab Auditorium, lecture by Dr. Charles Malik, former president of United Nations General Assembly, on "You and the Communist Challenge." Reception and discussion at 9:30 p.m.

Monday, April 2

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Rose Cologne, chairman of the division of home-community relationships, on "Afghanistan."

UCA-Newman Club Colloquium. 2 and 3 p.m., films at HUB; 4 p.m., Forum at HUB on "Social Conditions in which Communism Thrives;" 7:30 p.m., lecture by Dr. Frank S. Meyer, the National Review, on "Communism and Commitment."

UCA Forum

"The Ethics of Dietrich Bonhoeffer" will be discussed by Dr. George Forell, professor of Protestant Theology at the State University of Iowa, at a Forum sponsored by the University Christian Association Saturday, April 7, at 8 p.m. in the Chapel Lounge.

Bonhoeffer, whose writings are becoming increasingly influential in America, was the young German churchman hanged by Hitler.

Dr. Forell, born in Germany, is American educated, with degrees in theology from Lutheran Theological Seminary in Philadelphia, Princeton Theological Seminary, and Union Theological Seminary.

His books include "Ethics of Decision," "Luther and Culture," and "The Protestant Faith."

Senate meeting

The University Senate will meet Tuesday, April 3 at 3:55 p.m. in Room 121 Sparks.

Tuesday, April 3

University Senate meeting, 3:55 p.m. Room 121 Sparks.

Varsity baseball, versus Gettysburg, 3:30 p.m.

Lecture by Garrett Eckbo, noted landscape architect, on "Landscape for Living," 7:30 p.m., Room 10 Sparks.

UCA-Newman Club Colloquium. 2 and 3 p.m., films at HUB; 4 p.m., Forum on "Religion in Communist Controlled Lands;" 7:30 p.m., lecture in Schwab by Dr. Charles West, Princeton Theological Seminary, on "The Ideology of Communism."

Wednesday, April 4

Psychology Colloquium, 12:30 p.m. Dr. J. F. Corso, on "Hearing in the 'Ultrasonic' Range."

Home Economics Seminar, 12:30 p.m., HUB dining room "A." Mrs. Ruth H. Smith, research associate in family housing, on "Housing Choices when Families Move."

Nittany Grotto Meeting, 7:15 p.m., Room 121 Mineral Industries. Slide show on Cass Cave, West Virginia.

UCA-Newman Club Colloquium. 2 and 3 p.m., films in HUB; 4 p.m., forum on "Anti-Communism in America;" 7:30 p.m., lecture by The Rev. John Cronin, National Catholic Welfare Conference, on "Communism: Threat to Freedom."

Thursday, April 5

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. William Klemperer, Harvard University, on "Molecular Beam Spectroscopy."

Faculty meeting, College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Friday, April 6

Opening night of Center Stage production of Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

Centre Stage

Two one-act plays, directed by Warren Smith, associate professor of theatre arts, will be presented by Players at Center Stage beginning Friday, April 6, at 8 p.m. and continuing each Friday and Saturday through May 19.

G. B. Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape" contrast the playwriting techniques of the two writers and the two different philosophies concerning Man.

Shaw's play was written in 1895 and is his conception of the young Napoleon. "Krapp's Last Tape" was written in 1958 and is a one-character play.

The director will be available for discussion of the plays each Friday following the performances.

Maple Room

The Maple Room Cafeteria will resume lunchtime service Tuesday, April 3. Service will be provided daily, Monday through Friday, from 11:45 a.m. to 12:45 p.m.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
National Aeronautics and Space Administration	\$20,610	Preliminary study of an ionospheric rocket program for the International Year of the Quiet Sun	S. A. Bowhill
Penna. Dept. of Public Welfare	36,339	Operations of day care centers for children of migrant farm workers.	Winona Morgan
National Science Foundation	5,000	Research on X-ray Amorphous Mineral materials and their role in the weathering process	T. F. Bates
ibid.	7,100	Summer confrence for college teachers on organic chemistry	W. H. Powers
Approved Milk Anspectors Assn. of Southeastern Penna.	200	Research in mastitis	A. L. Bortree
Eastern States Farmers' Exchange	5,000	Research on competitive position of Penna. agriculture	M. E. John
Shell Development Co.	2,000	Compilation and publication of the catalog of fossil spores and pollen	William Spackman
Texaco, Inc.	2,000		
Ohio Oil Co.	2,000		
California Research Corp.	1,000		
Richfield Oil Co.	500		
Jones and Laughlin Steel Corp.	800	Cooperative Program in Metallurgy	R. W. Lindsay
E. Lavino and Co.	1,500	Research in mineral preparation	H. B. Charnbury
Ohio Oil Co.	1,000	Research in petroleum economics	J. J. Schantz, Jr.
Insulating Siding Assoc.	2,800	Research on moisture in house walls	F. A. Joy
Armco Foundation	800	Cooperative Program in Metallurgy	R. W. Lindsay
Blaw-Knox Co.	650	Cooperative Program in Metallurgy	R. W. Lindsay
Herbert Grunfeld and Ernest Grunfeld Trust	600	Renewal of graduate fellowship	G. W. Brindley
Sprague Electric Co.	3,100	Research in mineral engineering	D. R. Mitchell
Union Carbide Chemicals Co.	3,100	Graduate fellowship in ceramic technology	W. R. Buessem
Union Carbide Metals Co.	3,450	Aid for graduate chemical engineers for summer thesis work	M. R. Fenske
A.S.T.M.	1,000	Renewal of metallurgy fellowship	R. W. Lindsay
Continental Oil Co.	3,000	Research on use of theoretical models	P. H. Cutler
Corning Glass Works	4,100	Fellowship in petroleum engineering	C. D. Stahl
Radio Corporation of America	3,375	Renewal of fellowship	W. R. Buessem
Ford Foundation	64,500	Fellowship in electronics	A. H. Waynick
Penna. Game Commission	\$ 700	Summer institute for young engineering teachers	O. E. Lancaster
National Committee for Education in Family Finance	13,490	Research on nutritional requirements of white-tail deer	Ward Sharp
U.S. Army Research Office	19,239	Family Finance Workshop	F. W. House
Office of Naval Research	25,000	Research on nuclear magnetic resonance	W. I. Goldburg
Gulf Research and Development Co.	3,025	Field ion microscope	E. W. Mueller
Tennessee Valley Authority	5,463	Fellowship in petroleum and natural gas engineering	C. D. Stahl
Linde Company	2,400	Support of test demonstration farms	T. H. Patton
Hercules Powder Company	2,500	Research in mineralogy	O. F. Tuttle
Michael Baker, Jr., Inc.	2,500	Educational and research activities in chemistry	Thomas Wartik
John M. and Caroline Capozzola	2,000	Fellowship in public administration	J. R. Ferguson
		Fellowship in public administration	J. R. Ferguson

faculty BULLETIN

Vol. 49, No. 35 March 30, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

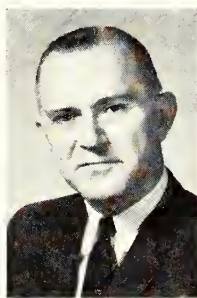
32

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Personnel matters

Thomas D. Bowman, professor of English literature whose teaching career at the University spanned 35 years, retired April 1. During his long career he was a favorite of students in his undergraduate course on Shakespeare's comedies and tragedies. He also taught courses in Shakespeare's chronicle and problem plays and a graduate course on special problems in the work of the Bard. He has done extensive research work on Shakespearian literature and plans to continue his research in retirement.



T. D. Bowman

Dr. George A. Theodorson, associate professor of sociology, has been awarded a Senior Fulbright Professorship to lecture during the coming academic year at the University of Vienna, Austria. He has been granted a leave of absence from Sept. 1 to June 30, 1963. In addition to lecturing on urban sociology and conducting graduate seminars, he expects to expand the cross cultural study he has been making of American and Indian families to include Austrian families.

Dr. Giovanni DeMaria, member of the faculty of the Institute of Physical Chemistry, University of Rome, and a fellow of the National Research Council of Italy, is spending several months on campus as a guest of the department.

(Continued on page two)

Priestley lectures

Dr. Paul H. Emmett, professor of chemistry, The Johns Hopkins University, will present the annual Priestley Series of lectures in chemistry next week beginning Monday. The Series is sponsored by Phi Lambda Upsilon honor society.

The annual banquet of the society will be held Thursday, April 12, at 6:30 p.m. at the Autoport.

All lectures in the series will be given at 8 p.m. in Room 119 Osmond with the exception of the Thursday lecture which will be held at 4:30 p.m.

General theme of the series will be catalysis, a subject which attracted Dr. Emmett's research attention as early as 1926, when he was employed by the U.S. Department of Agriculture in the Fixed Nitrogen Research Laboratory. Since those days he has taught at George Washington University and at Johns Hopkins and has conducted research at Mellon Institute. He received the American Chemical Society Pittsburgh Award in 1953 and the Kendall Co. Award in Colloid Chemistry in 1958.

Photo exhibit

An exhibit of photographs from the files of the University Photo Services will be on display at the HUB gallery from April 8 to April 30.

Titled "Assignment Penn State," the exhibit represents the work of photographers Edward Leos, Tom Kamihiro, and John Mertz in regular assignments of taking pictures for news and feature stories, for many types of publications, and for general University use. The UPS is part of the Division of Academic Research and Services and the studios are at 112 W. College Ave.

There are 50 photos in the exhibit.

Chapel telecast on Easter

A DIRECT telecast will be made of the Easter Sunday Chapel Service April 22 by WFBG-TV, Altoona. It will be the first live television broadcast made from the auditorium.

The service will follow in general the order of Holy Communion according to Anglican traditions. Music for the service is the work of George E. Ceiga, University organist and teacher of organ and composition, and was presented originally in 1958.

Dr. Luther Harshbarger, University chaplain, will give the sermon and the Rev. P. Barrett Rudd, associate director of the University Christian Association, will assist in the service.

The University Chapel Choir, conducted by Willa C. Taylor and James W. Beach, will be aided in the music by a brass choir directed by Rex Rockwell.

Humphrey-Mundt

Senator Hubert H. Humphrey, Democrat, Minnesota, and Senator Karl E. Mundt, Republican, South Dakota, will debate on the subject, "Is the New Frontier Moving in the Right Direction." Saturday, April 14, at 8:30 p.m. in Schwab Auditorium in the University Lecture Series.

Tickets will go on sale to the general public Thursday, April 12, at 9 a.m. at the HUB desk.

Sen. Humphrey is assistant majority leader of the Senate, chairman of the Subcommittee on United Nations Affairs, and member of the Foreign Relations Committee and of the Special Subcommittee on Disarmament.

Sen. Mundt served as acting chairman of the Senate Investigating Committee during the Army-McCarthy hearings. He has been in Congress since 1939, a member of the Senate since 1948.

Home Ec weekend

The annual College of Home Economics Spring Weekend, April 13 and 14, will have as its theme, "Families Around the World — Technical and Human Development."

Keynote address for the event will be given by Dr. Lawrence E. Dennis, associate director of the Peace Corps, at 7:30 p.m. Friday, April 13, in Schwab Auditorium on "The Peace Corps — The New Frontier for Family and Community Education."

The two-day program will include tours, movies, exhibits and demonstrations in addition to lectures by both faculty members and visiting experts. Much of the activity will center in the Home Economics buildings. Registration will take place in the Living Center, Room 18, Home Economics Building.

Dr. Leonard Raver, Chapel organist, will play for the service and will give a prelude recital which will begin at 10:45 a.m. The telecast will begin at 11 a.m. (Note: it will be difficult to admit people after the broadcast begins.)

Ceiga's use of brass in the service. Mrs. Taylor explains, emphasizes the triumphant spirit of the Easter season. In Bach's time the re-entry of the

(Continued on page two)

Woman of the year



Barbara Troxell, class of 1937, has been named Penn State's Woman of the Year. She will be formally cited at Alumni Reunion ceremonies in June.

A brilliant lyric soprano who won wide acclaim as a recitalist in Europe

for six years, Miss Troxell demonstrated musical promise as a child. During undergraduate days she was a member of the choir, women's orchestra, women's glee club, and Thespians.

In 1939, Miss Troxell obtained her master's degree and subsequently studied under Elisabeth Schumann at Curtis Institute of Music. She appeared as guest soloist with the Philadelphia Orchestra, the Desoff Choirs and the National Orchestral Association, and as operatic lead for Sir Thomas Beecham in his Mozart Art Festival. She made her Metropolitan Opera debut in 1950.

Her career has included coast-to-coast radio, world tours, and prize-winning recordings. She is currently teaching voice at Cornell University.

Five o'clock theatre

Production of theatrical works by Five O'Clock Theatre will resume Thursday, April 12, at 5:15 p.m. in Little Theatre, Old Main. Two graduate students in the theatre arts department, Warren Burns and Jim Dewsnap, manage the Theatre, which is designed to present new, short plays by student playwrights and produced by student directors, actors, and technicians.

"The Proper Lilies," by Margaret Van Dwyne, will be presented April 12. There is no admission charge.

Fry drama

A religious drama by Christopher Fry, titled "The Boy with a Cart," will be presented by The Bishop's Company of Santa Barbara, Calif., Friday, April 6, at 8 p.m. in the Helen Eakin Eisenhower Chapel.

Fry is the author of such outstanding plays as "The Firstborn" and "The Lady's Not for Burning." No stage setting will be used for the play, which will be given in the chancel of the Chapel.

The Bishop's Company, founded by Phyllis Benbow Beardsley in 1952, has toured over 700,000 miles in nine years of repertory work.

Bicycle safety

The initial step in a safety program related to bicycling on campus will be undertaken Saturday, April 7, when an inspection and registration will be held in Parking Area 46, north of South Halls (Ice Pavilion in case of rain.)

All bicycles to be operated on the campus will be required to be inspected and bear a registration tag issued either by the Borough or by the University. No charge is made for the inspection for University students or staff members if made Saturday at the prescribed location.

Johnson talk

The speech by Vice President Lyndon B. Johnson Tuesday, April 10, as part of the College of Business Administration Career Day activities, will be carried by radio live and will be taped for television rebroadcast also. The speech, at 8 p.m. in Schwab Auditorium, will be carried by WMAJ, State College, radio live and televised at 11:20 p.m. by WFBG-TV, Altoona. Admission to Schwab Auditorium will be by ticket only.

Statue

A small Egyptian statue believed to be between 2500 and 3000 years old has been presented to the University by Mrs. Guy Wise, of Somerville, N.J., widow of a member of the class of 1901.

To be mounted and placed in the University's permanent art collection, the statue is of Apis, sacred bull of Memphis. The bull bears a sun disc between its horns with the snake symbol inscribed.

Chapel —

(Continued from page one)

brass instruments in the liturgical services at Eastertime marked a high point in the church year.

The choir, 131 singers in all, will sing the introit in the vestibule of the auditorium and begin the processional hymn while moving to the stage. The choral benediction will also be sung from the vestibule.

The telecast presents some unusual problems for both participants and technicians alike, since no previous experience is available to indicate the best procedures. The choir will rehearse the mechanical operation of taking places on the stage with as little confusion and noise as possible. Placement of microphones and cameras will also be experimented with prior to the service.

Personnel —

(Continued from page one)

ment of geophysics and geochemistry. He is studying the mass spectroscopic geological "age" determinations employed by Dr. Leonard F. Herzog, associate professor of geophysics.

Joseph J. Comer, associate professor of mineral sciences, has resigned effective June 30, to become a research scientist at Sperry-Rand Research Center, Sudbury, Mass., working in the areas of electron microscopy and electron diffraction. He has been a member of the faculty since 1952.

William F. Fatula, Sr., plant manager of Warren Corp., Clarion, has assumed duties as assistant to the vice president for business, S. H. Campbell. He is a Carnegie Tech graduate and had previously served as vice president for manufacturing of plants in Oakmont and Glenshaw, near Pittsburgh.

Dr. Lloyd Currie, assistant professor of chemistry and a member of the faculty since 1955, has resigned to accept a position in the Radioactive Section, National Bureau of Standards.

Dr. Milan Mitrovic, assistant professor of veterinary science for the past year, has resigned to become manager of the biology laboratory of Hoffman-LaRoche, Inc., Nutley, N. J.

Dr. George N. Raney, associate professor of mathematics who was on leave for the Fall and Winter Terms as visiting professor of mathematics at Wesleyan University, has resigned to take a permanent position at Wesleyan. He served here seven years.

Dr. William R. Byrnes, associate professor of forestry, has resigned, effective June 30, to become associate professor in the department of forestry and conservation at Purdue University. He has been a member of the faculty since 1952.

Dr. Cecil E. Tilley, recently retired as professor and head of the department of mineralogy and petrology at the University of Cambridge, England, is currently visiting professor of mineralogy and petrology. From September to last month he was on the staff of the Geophysical Laboratory, Washington, D. C.

Christian K. Arnold, staff assistant to the President since 1956 and from 1953 to 1956 technical editor in the Ordnance Research Laboratory, has resigned to accept a position as associate executive director of the Association of State Universities and Land-Grant Colleges.

Conflict of interest discussed

(This is one of a series of reports issued periodically by the President's Office on matters of mutual concern to the faculty and the administration.)

THE officers and faculty of the University should be aware that, when they serve the Federal Government on an intermittent or part-time basis as consultants, members of advisory boards and the like, they must be careful to avoid any situation which might give rise to a so-called "conflict of interest." I do not mean to discourage any member of the University staff from making his talents available to the Government to the extent that his academic duties permit, nor from supporting a particular field of knowledge by serving as a Government adviser. Such activities are an important part of the role which should be assumed by an institution such as ours. But I do wish to utter a word of caution, lest some of us unwittingly may become involved in situations which might give rise to severe public criticism or even criminal penalties, with resulting serious harm both to the individual himself and to the University.

At my request, the University's special counsel in Washington, D. C., William Mitchell, has recently given me an opinion concerning the possible impact upon the University staff of the conflict of interest rules as the latter are reflected in the Federal statutes, in a bill now pending in the Congress, and in a memorandum recently issued by President Kennedy. Broadly speaking, Mr. Mitchell's opinion states that a conflict arises whenever the interest of a full-time or part-time Government employee in the proper performance of his official duties clashes, or appears to clash, with his interest in his private economic affairs.

There are six Federal statutes, five of which carry criminal penalties, prohibiting various actions by Government employees which are inconsistent with their official duties, including receipt of outside compensation for performing work for the Government, dealing with the Government on behalf of a private organization or individual in matters which the employee has handled in his official capacity, and participating in transactions between the Government and an organization in which the employee has a financial interest. The outside financial interest which is prohibited by these statutes includes salary or fees for consulting services as well as any financial interest in the profits and contracts of the private concern, stock ownership, profit-sharing arrangements, directorship fees, and partnership interests. The impact of the statutes is not limited to full-time Government employees. To a large extent, the

statutes apply also to a person who serves the Government only on a part-time or intermittent basis as an individual consultant or a member of an advisory committee. Some of these statutes, at least, apply to an intermittent consultant or adviser at all times until the termination of his last period of service to the Government, and in certain respects, for a period of two years thereafter.

In the Congress, a bill which passed the House last summer and is now pending in the Senate would codify and strengthen these statutes. In addition, President Kennedy's memorandum of February 9, 1962, which was addressed to the heads of executive departments and agencies, was designed to prevent conflicts of interest on the part of advisers and consultants to the Government. Among other things, the President said that public policy requires that a Government adviser or consultant should be disqualified from rendering advice to the Government which will have a direct and predictable effect upon the interests of an entity (including a non-profit or educational institution) by which he is employed, or to which he renders consultant service, or in which he has a financial interest. The President also directed each department or agency to require its consultants or advisers to furnish statements setting forth certain aspects of their private employment and financial interests.

An officer or member of the faculty of the University, in serving the Federal Government as a consultant, member of an advisory board, part-time employee or in some similar capacity, is not likely to violate the conflict of interest statutes by reason solely of his connection with the University. Nevertheless, he should keep in mind the public policy set forth in President Kennedy's memorandum, that the officer or faculty member should be disqualified from rendering advice to the Government which will have a direct and predictable effect upon the interests of the University.

On the other hand, a University official or faculty member who serves

(Continued on page four)

NEWS IN BRIEF

► **PAPERS:** Historical papers of the late Ellis P. Grove, of Williamsport, containing many documents of wide interest and importance, have been presented to the Pattee Library by Mrs. Blanche C. Grove, his widow, and will become part of the Pennsylvania Historical Collection. Included in the collection are such items as a telegram to President Lincoln asking for a new commander of forces defending Pennsylvania after the burning of Chambersburg; papers from James Buchanan and Martin Van Buren; and a pardon for a Confederate rebel signed by Andrew Johnson.

► **DEADLINE:** Ralph N. Kreckler, director of student aid, points out that the deadline for filing of applications for Faculty Aide Scholarships is approaching rapidly. Target deadline is April 15 but applications may be accepted up to April 30. The scholarships, which pay outstanding students \$100 for approximately 50 hours of work during the Summer Term, have been made available by President Walker for the second year in a row to give to the students an opportunity to gain valuable experience working in their specialized fields in close associate with a member of the faculty.

► **BLUE BAND:** The Penn State Concert Blue Band, directed by James W. Dunlop, will make a two-day tour which will include performances at the Octorara High School Sunday, April 8, and at Landisville High School April 9 in the morning, Millersville State College in the afternoon, and Shamokin High School in the evening. A total of 108 musicians will make the tour.

► **OPEN HOUSE:** An open house program by the College of Engineering and Architecture for members of Sigma Xi, engineering honorary society, and graduate students will be held Wednesday, April 11, from 7 to 9:30 p.m. All areas of engineering work will participate in the program. A total of 21 exhibits will be on display, many depicting the current research studies being made and others showing unusual instructional equipment and techniques. A schedule of the exhibits and a map showing their location will be available at the information desk in Hammond Building. Refreshments will conclude the program.

► **CHORAL:** Raymond Brown, associate professor of music, will direct the State College Choral Society in its presentation of Bach's St. John's Passion Sunday, April 8, at 8 p.m. in the State College High School Auditorium on Westerly Parkway.

CALENDAR

Friday, April 6

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Robert Paton, Geologisches Landesamt Mordragen, West Falen, Germany, on "Application of Palynology in Geological Correlation problems."

Opening Night of Center Stage production of Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape." 8 p.m.

Dramatic production of Christopher Fry's "The Boy with a Cart," by the Bishop's Company. 8 p.m., Chapel chancel.

Saturday, April 7

U.C.A. Forum, 8 p.m., Chapel Lounge. Dr. George Forell, professor of Protestant Theology, State University of Iowa, on "The Ethics of Dietrich Bonhoeffer."

Center Stage production of Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape." 8 p.m.

Graduate Student Association square dance, 8:30 p.m., HUB ball room.

Sunday, April 8

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Donald McIlvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. George Forell, professor of Protestant Theology, State University of Iowa, on "Christ in Time."

Concert by Women's Chorus, 3 p.m., Schwab Auditorium.

Hillel Cultural Film Series, 8 p.m., Hillel Foundation. "Fiske der Krummer," a Jewish classic.

Monday, April 9

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. John McLucas, on "HRB-Singer: Past, Present, and Future."

Opening of Priestley Lectures by Dr. Paul H. Emmett, professor of Chemistry, Johns Hopkins University, 8 p.m., Room 119 Osmond, on catalysis. Other lectures Tuesday, Wednesday, and Friday at 8 p.m. and Thursday at 4:30 p.m.

Tuesday, April 10

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." David G. Hayes, on "The Absence of Central Banking, 1818-1836."

Penn State chapter, American Society for Metals, meeting at 7:30 p.m., Mineral Industries Auditorium. Dr. John A. Fellows, Mallinckrodt Chemical Works, on "Developments in the Fabrication and Heat Treatment of Uranium Metal."

Varsity baseball, vs. Ithaca, 3:30 p.m.

Talk by Vice President Lyndon B. Johnson, 8 p.m. Schwab Auditorium. Admission by ticket only; to be broadcast by WMAJ, State College, and telecast by tape at 11:20 p.m. by WFBC-TV, Altoona.

Wednesday, April 11

Sociology Club meeting, 7 p.m., Simmons Lounge. Speaker from Rockview Penitentiary.

Lecture by Dr. Boyd C. Shafer, executive secretary of the American Historical Association on "What Good is History," before Phi Alpha Theta honorary and any others interested.

Open house program in College of Engineering and Architecture, 7-9:30 p.m. Information at Hammond Building.

Thursday, April 12

Five O'clock Theatre, Little Theatre, Old Main, 5:15 p.m., "The Proper Lilies" by Margaret Van Duyen.

Philosophy Colloquium, 4 p.m., Room 202 Willard. Aaron Druckman, associate professor of philosophy, on "The Sabbath and Human Being."

Naiads' "Aquacade" 8 p.m., White Building pool, titled "A Dip with Disney" sponsored by Women's Recreation Association.

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Earl Mutterties, E. I. Dupont de Nemours.

Friday, April 13

Special meeting of Nittany Grotto, 8:30 p.m., Room 121 Mineral Industries. Allen D. McCrady, on "Pleistocene Paleontology."

Meeting of College of Agriculture faculty, 3:55 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Peter Swann, U.S. Steel Corp., on "Metallurgical Applications of the Electron Microscope."

Naiads' "Aquacade" 8 p.m., White Building pool, titled "A Dip with Disney" sponsored by Women's Recreation Association.

Conflict —

(Continued from page three)

the Government on an intermittent or part-time basis may well run afoul of the conflict of interest laws if, at any time before his Government appointment or employment is finally terminated, he has a financial interest in a private organization which is involved in work for the Government, even though that financial interest consists of nothing more than ownership of stock or serving the organization as a consultant, a director, or the like. Furthermore, after his intermittent employment by the Government has been finally terminated, he will be precluded for a period of two years from certain dealings with departments and agencies of the Government. It is immaterial that the University official or faculty member may be unaware of the violation of the laws or that his sole motive may be to advance the interests of the Government or of some particular field of knowledge.

As a practical matter, it is impossible to lay down in advance rules of conduct which will govern every situation which might arise. A copy of the Mitchell opinion is available, as a matter of general guidance, to any University officer or member of the faculty who has or even suspects he has a problem of this character. If an officer or member of the faculty of the University is in doubt as to his proper course in a particular situation, he should consult his own legal counsel, the legal counsel of the University, or the Government department or agency which he is serving or proposes to serve.

faculty BULLETIN

Vol. 49, No. 36 April 6, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

CALENDAR

Friday, April 13

Biophysics Seminar, 9:35 a.m., Room 300 Walker. Dr. Otto E. Landman, Medical Bacteriological Division, U.S. Army Chemical Corps, Fort Detrick, Md., on "A New Type of Inheritance in Bacteria."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Robert G. Stone, Yale University, on "The Dependence of Acoustic Fluctuations on the Parameters of the Temperature Microstructure."

Richard Wilbur, Pulitzer prize winner in poetry and poet-in-residence at Wesleyan University, in a reading before the Poetry Workshop, HUB Assembly Room, 8 p.m.

Special meeting of Nittany Grotto, 8:30 p.m., Room 121 Mineral Industries. Allen D. McCrady, on "Pleistocene Paleontology."

Meeting of College of Agriculture faculty, 3:55 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Peter Swann, U.S. Steel Corp., on "Metallurgical Applications of the Electron Microscope."

Naiads' "Aquacade" 8 p.m., White Building pool, titled "A Dip with Disney" sponsored by Women's Recreation Association.

Center Stage production of Shaw's "Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

College of Home Economics Spring Week-end program. Speech by Dr. Lawrence E. Dennis, associate director of the Peace Corps, on "The New Frontier for Family and Community Education," 7:30 p.m., Schwab Auditorium.

Saturday, April 14

Naiads' Aquacade, titled "A Dip with Disney," 8 p.m., White Building pool.

Varsity golf, vs. Colgate, 1:30 p.m.; lacrosse, vs. Lafayette, 2 p.m.

University Lecture Series debate, Senators Karl Mundt, South Dakota Republican, and Hubert Humphrey, Minnesota Democrat, on "Is the New Frontier Moving in the Right Direction," 8:30 p.m., Schwab Auditorium.

College of Home Economics Spring Week-end continues, with tours, movies, exhibits, and lectures and discussions.

(Continued on page four)

NEWS IN BRIEF

► **INSPECTION:** A repeat of the bicycle inspection and registration which was made last Saturday will be staged this Saturday (April 14) from 10 a.m. to 5 p.m. in Parking Area 46, north of South Halls (Ice Pavilion in case of rain). All bicycles driven on campus and in the borough must be resistered and inspected, William C. Pelton, security division points out. Because of inclement weather last Saturday, officials are giving students and staff members an additional opportunity for inspection, for which there is no charge.

► **DIRECTORY:** A directory containing the names of 275 Pennsylvania organizations offering research, engineering design, development, testing, and other engineering services has been prepared and distributed by the College of Engineering and Architecture, through the Industrial Reference Division. It is intended to help industries and businesses in the Commonwealth.

► **SCHOLARSHIP:** Students in Sommerset House, in East Halls, have contributed \$25 to a scholarship fund established in the memory of a former resident of the house, John R. Peterson, who died in an auto accident last month. Residents of Kane, his home community, initiated the fund.

► **AAUP:** The local chapter of the American Association of University Professors will meet Tuesday, April 17, at 7:30 p.m. in Room 124 Sparks for the annual business meeting.

Public service

Copies of the University's policy statement relative to public service by staff members are available on request from the Department of Personnel Services-Employee Relations, 304 Old Main. The statement will be most helpful to those interested in running for public office or serving as consultants or advisors to branches of the Commonwealth or its counties, townships, boroughs and other subdivisions.

NOTE

Many faculty members now receive the Faculty Bulletin Thursday afternoon. The earlier delivery time was made possible by a special effort on the part of both the printer, Himes Printing Co., and the Campus Mail Service, who revised their schedules to make possible the earlier delivery without altering the deadline for copy. Items to be included each week may still reach the editor as late as 5 p.m. Monday of that week.

► **DISCUSSION:** A ten-week discussion series on the theme, "The Responsible Man," has been developed by Continuing Education Services in southeastern Pennsylvania for broadcast over radio station WPBS-FM, Philadelphia, each Sunday evening until June 3. A panel consisting of five area leaders conducts the program.

► **PRIZE:** Mrs. Marilyn Pappas, instructor in art education, received a third prize and cash award in the Fifth Annual Design Exhibition in Miami, Fla., for a wall hanging depicting the "Great Beach" at Cape Cod.

► **TALKS:** Bradford Lyttle, executive secretary of the Committee for Non-Violent Action who was the leader of the group which last year walked from San Francisco to Moscow to urge disarmament, will give three talks on campus Tuesday, April 17. At 12:30 p.m. he will speak in the Chapel on civil defense; at 3 p.m. also in the Chapel on disarmament; and at 8 p.m. in the Mineral Industries Auditorium, on his experiences in Moscow. The University Christian Association is sponsoring his visit.

► **POET:** Richard Wilbur, Pulitzer prize winner in poetry, will give a reading of his poems before the Poetry Workshop, English 113, conducted by Joseph L. Grucci, at 8 p.m., Friday, April 13 in the HUB Assembly Room. He will also give a reading before the Penna. College English Association at the Nittany Lion Inn on Saturday.

Deadline

Today (Friday) is the deadline for filing by senior students of the Summer Term No. 2 card (Official Registration Form). Other deadlines are: Junior, April 20; Sophomores, April 27; Freshmen, May 4; and Graduate and Special students, May 11.

If a student plans to attend Summer Term this year and has not submitted a No. 2 card by the deadlines given, his assignment to class will be based on the remaining space at Summer Term Registration. Students are assigned to classes by term classification, starting with the 12th term.

Some Summer Term No. 2 cards were filed at Spring Registration. If a change is necessary, the student may file a revised card at the Registrar's Office, Room 4 Willard and the word "revised" must be printed on the card in the area directly above the adviser's signature.

Senate Minutes

Meeting of April 3, 1962

The University Senate met at 3:55 p.m. on Tuesday, April 3, 1962, in Room 121 Sparks Building with Vice President John R. Rackley presiding. The minutes of the March 6 meeting were approved as printed in the Faculty Bulletin for March 16, 1962. Ben Euwema, Dean of the College of the Liberal Arts, gave an amplification of the minutes as they pertained to the letter from E. L. Keller concerning statements of policy on Continuing Education in each of the Colleges. He stated that the College of the Liberal Arts had sent revised copies of its policy to Mr. Keller. One hundred forty-seven senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Martha Adams (Herberta Lundegren), Hummel Fishburn (Frances Andrews), J. C. Johnson (V. M. Albers), A. O. Lewis (H. J. Golatz), E. L. Mattil (Paul Edmonston), D. H. McKinley (W. M. Hench), H. B. Palmer (P. H. Given), E. R. Queer (E. C. Shuman), F. J. Simes (L. S. Austin), R. W. Stone (E. S. Lindstrom), and G. L. Thuring (C. R. Moss).

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved approval of the report which contained proposals listed under I A and I B. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the Informational Report on the "CLARIFICATION OF UNIVERSITY POLICY ON COMPETENCE IN ORAL AND WRITTEN COMMUNICATION" which had been distributed with the agenda as Appendix "B." He asked that a correction be made by inserting the word "baccalaureate" between the words "all" and "students" in the first line of the second paragraph. Mr. Schanz gave a brief statement of the background for this report and moved that it be accepted by the Senate. The motion was seconded and passed. The report is as follows:

INFORMATIONAL REPORT

Clarification of University Policy on
Competence in Oral and Written
Communication

Written Communication:

On April 10, 1958, the Senate accepted a recommendation of the Educational Policy Committee which stated, "Minimum competence in English usage shall be defined as the level of achievement equivalent to that required for passing English Composition 5 or its equivalent as approved by the English Department."

This statement recognized a long standing requirement that all baccalaureate students of the University should complete the second level course in English Composition. This course was originally English Composition 5 and is now English 3. Students exempt from the first level course (English Composition 1) were previously encouraged to take an advanced writing or literature course but were never required to do so.

The appearance of the new English 2 course, designed specifically for those students who are exempt from English 1, did not involve any change in University Policy. Each college still has the prerogative of ending the composition training of its students with English 3 (English 2 in the case of English exemptees). It should be mentioned, however, that the English Department does not feel that English 2 is the exact level equivalent of English 3 and therefore urges colleges to have their students who complete English 2 take an additional course in English.

Oral Communication:

The report of the sub-committee on oral communication as revised and approved by the Senate Committee on Educational Policy and by the Senate itself on June 3, 1959 states that "each student in all curricula be required to take and pass Speech 200 unless exempted. Students who fail to do so should be scheduled for remedial work in Speech, the successful completion of which may be offered in lieu of Speech 200." The report further states that "a procedure be established whereby students proficient in oral communication be encouraged to submit themselves for evaluation and waiving of the Speech 200 requirement."

It is clear that Senate policy requires only the passing of Speech 200 or a remedial course. The waiving of Speech 200 automatically removes the student from any further mandatory work in Speech. As is the case in English upon the completion of English 2 or 3, whether the student when exempt from Speech 200 replaces it with another Speech course is a college, departmental, or student-adviser matter.

Conclusion:

University policy concerning competence in oral and written communication for all students is based on attaining a level of competence not the completion of a specified number of credits. University policy does not require ALL students to complete 6 credits in English and 3 credits in Speech. The departments of English and Speech have the responsibility of determining the student's competence through placement tests but may not require a student to take work beyond the level of competence derived through the successful completion of English 2 or 3 and Speech 200.

Mr. Schanz then presented the "REPORT ON GRADES FOR CREDIT BY EXAMINATION" which had been distributed with the agenda as Appendix "C." He moved adoption of the recommendation to change Rule M-8 and Rule N-1 of the Senate Policies and Rules for Undergraduate Students, 1961-1962. The motion was seconded. R. G. Stoner moved that M-8 be amended to include a suitable differentiation between a course taken by examination and one taken in the regular way. The motion was seconded. After discussion by Miss Ayres, Messrs. Shanz, Cutler, Stoner, and Murray, the amendment was passed by a showing of hands. The motion as amended, was passed by a showing of hands. The changed rules now read as follows:

M-8. A passing grade of A, B, or C earned in a course taken by examination shall be recorded on the student's transcript in the same manner as the grade earned in a course taken by enrollment. Grades of D and F shall not be recorded. A passing grade obtained by such examination will not be utilized to remove a previous failure as governed by Rules M-7 and O-5. A suitable designation shall be used on the official transcript to indicate that credit was earned by examination.

N-1. A student's grade point average shall be the weighted mean value of all grade points earned either by enrollment or by examination in courses at The Pennsylvania State University.

The complete report is on file in the office of the secretary.

NEW BUSINESS

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented two reports which had been distributed at the meeting. The first report, which was on the "REORGANIZATION OF THE SENATE COMMITTEE ON STUDENT AFFAIRS," contained recommendations for changing Article II, Section 1-O and Section 1-O-3 of the By-Laws. He moved that this report be received and held on the table for one month. The motion was seconded and passed. The report is as follows:

REPORT OF THE SENATE COMMITTEE ON COMMITTEES

Subject: Reorganization of Senate Committee on Student Affairs.

To alleviate the intolerable work load of the chairman of the Senate Committee on Student Affairs and to make it more truly representative of the faculty, the Committee on Committees recommends that the following changes be made:

1. That the Chairman of the Subcommittee on Discipline be selected by the Committee on Student Affairs from among its voting membership.
2. That the Senate faculty membership on the Committee on Student Affairs be increased by three, making a total of seven.
3. That the Dean of Women, Dean of Men and the Vice President of Undergraduate Student Government no longer serve on this Committee.
4. That ex-officio members of this committee be made ex-officio non-voting members.

To implement these recommendations the committee moved that Article II, Section 1-O and Article II, Section 1-O-3 be amended to read as follows:

Article II, Section 1-O. Student Affairs, seven faculty members of the Senate and ex-officio, non-voting, the Special Assistant to the President for Student Affairs, the chairman of the Graduate School Committee on Student Affairs, the President of Undergraduate Student Government and the President of the Association of Women Students.

Article II, Section 1-O-3. Discipline.

A. Voting Members, the chairman to be selected by the Senate Committee on Student Affairs from among its voting membership, the Dean of the College (or his representative) in which the student is enrolled . . . etc. (unchanged)

The second report was entitled "RECOMMENDATIONS OF RULES CHANGES RELATING TO DUTIES OF SENATE COMMITTEE ON STUDENT AFFAIRS." Mr. Josephson moved that this report be received and referred to the Committee on Rules for appropriate action and report back at the next meeting of the Senate. The motion was seconded and passed. The report is as follows:

SPECIAL REPORT OF THE SENATE COMMITTEE ON COMMITTEES

Subject: Recommendations of rules changes relating to duties of Senate Committee on Student Affairs.

Contingent on the approval of the proposal for the reorganization of the Senate
(Continued on page four)

Scientists help through IDA

THE Institute for Defense Analyses is one of a number of "think" organizations aiding Federal agencies without direct attachment to the Government.

Penn State was selected to membership in IDA in 1959, three years after Cal Tech, Case, M.I.T., Stanford, and Tulane obtained a charter as a non-profit organization to aid the Department of Defense through the Weapons System Evaluation Group.

WSEG was formed in 1949 as an internal agency of the Department of Defense with a small military and civilian-scientist staff. The Department desired to provide the technical management necessary to strengthen and expand the civilian scientific element, to find and organize the needed scientific minds and skills, and so near the end of 1955, Massachusetts Institute of Technology undertook to sponsor the creation of an organizational framework for a corporate body of universities to make available the technical management DOD sought. IDA was formally constituted in April, 1956, and in August relieved M.I.T. of its contract.

One of the major reasons IDA and similar "think" organizations, like RAND, are useful is that they are able to obtain the services of many scientists who have no desire to enter civil service yet are anxious to perform a public service. IDA's structure is such as to encourage university scientists to lend their talents for relatively short periods of time, obtaining all the usual employment benefits common to the academic community yet performing as a public servant.

The scientific force behind IDA includes more than 400 men and women in a wide variety of specialties. There are three general categories of people making up the IDA staff: (1) a permanent party, professionals in a wide range of disciplines; (2) a more fluid population of those committed for a

year or so; and (3) a special project population recruited as needed for varying lengths of time as individual projects develop.

For all three groups, IDA believes, patriotism, the wish to participate in public life, and an inner compulsion to contribute to the national defense are motivations for serving.

Although the initial purpose of IDA was to aid WSEG (the attention of the group centered in Weapons Systems for the first few years), the Institute recognizes that "the meaning of national security is no longer limited to politico-military affairs, but rather includes the well-being of the nation in all affairs in which it must participate." Today, IDA is concerned with areas of world relationships and responsibilities and the humanities and social sciences are represented in its work as are science and engineering.

Today there are five divisions in IDA (Weapons Systems Evaluation, Advanced Research Projects, Communications Research, Jason, and Special Projects) and a new building has been completed at Princeton, N.J. There is a continual expansion of effort.

President Eric A. Walker has been a member of the IDA Board of Trustees since 1958. He commends IDA to the consideration of the faculty who, if interested, can learn more about how they might be able to contribute by contacting Dr. E. F. Osborn, vice president for research.

Personnel matters

Dr. Werner J. Mueller, associate professor of poultry husbandry, has been granted a year's leave of absence, beginning May 1, to accept a position as animal production officer in the poultry section of the Food and Agricultural Organization of the United Nations. He will be stationed in Rome, Italy.

Joseph A. McCurdy, associate professor of agricultural engineering, has been granted a year's leave beginning Sept. 1 to work for his master's degree in agricultural engineering at Michigan State University.

Dr. Michael P. Gaus, assistant professor of engineering mechanics currently on leave, has been granted an extension of his leave until June 30, 1963 to continue to serve as assistant director in the Division of Mathematics, Physics, and Engineering of the National Science Foundation.

Dr. Hugh Taylor, assistant professor of geochemistry, has resigned, effective June 30, to accept a position as assistant professor of geology, California Institute of Technology.

Dr. Hideo Futama and Dr. Tamachi Ashida, Japanese scientists who have served for two years as research

BOOKS

Dr. Warren W. Hassler, Jr., associate professor of American history, is author of a new book, to be published by the Louisiana State University Press April 29, titled "Commanders of the Army of the Potomac." The book studies the reactions of the seven commanders of the Army to the pressure of facing Robert E. Lee in battle, their patterns of conduct in battle and at the conference table. Also author of "General George B. McClelland: Shield of the Union."

Dr. Donald S. Pearson, associate professor of electrical engineering, is author of the book, "Basic Energy Converters-Electro-Mechano" published by Edwards Brothers, Inc. It is a unified text presented as a program of instruction for undergraduate students in the field of transducers and electro-mechano types of energy converters. Also the author of "Creativeness for Engineers," now in fourth edition, and "Creative Image."

Scholarships

Three new scholarships were reported to the Board of Trustees today:

Central Penn Supply Co., Inc., Lewistown, Pa. — A \$300 per year scholarship, renewable each year if holder maintains a 3.0 average as full-time student, for any entering freshman who manifests promise of outstanding academic success and who has a demonstrated financial need.

Penn Central Equipment Co., Altoona — A \$300 per year scholarship renewable for six terms, to aid worthy and needy male students of seven counties in Central Pennsylvania who are interested in the two-year electrical technology course at either DuBois or Altoona Campus.

Radio Motor Service, Inc., Altoona — "The R. P. Good Memorial Scholarship" of \$300 per year, renewable for six terms, to aid students from certain counties in Pennsylvania and Maryland who are interested in the two-year electrical technology course at the Altoona Campus.

associates in the X-ray and Crystallography Laboratory, have returned to their former positions in Japan.

Dr. Louis Walter, research associate in geochemistry who received his doctor of philosophy degree in 1960, has resigned to accept a position on the staff of the Theoretical Division, Goddard Space Flight Center, Greenbelt, Md.

Dr. Graeme Claridge, for the past year research associate in mineralogy working with Dr. Thomas F. Bates, has returned to his former position with the New Zealand Bureau of Soils in Wellington.

Calendar —

(Continued from page one)

Sunday, April 15

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Sam Gibson.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Alfonso Rodriguez, president, Union Evangelical Seminary, Cuba.

Hillel Foundation Cultural Film Series. "Leonardo Da Vinci," 8 p.m.

Monday, April 16

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Charles Hosler, professor of meteorology, comments and slides "Around the World in 30 Minutes."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Helen D. Megaw, department of physics, Cambridge University, on "Recent Research on Feldspar Structures."

Biological Sciences Lecture Series, 3:55 p.m., Room 117 Borland. Dr. I. G. White, professor of veterinary physiology, University of Sydney, on "Aspects of the Metabolism of Semen."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. A. Wilkov, on "Dislocations and Point Imperfections."

State College Color Slide Club meeting, 7:30 p.m., Mineral Industries Auditorium. Recorded lecture by Vella L. Finney, Photographic Society of America, on "The Story of Composition." Monthly competition judged by Dr. Robert E. Tschan.

Tuesday, April 17

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Dr. Arthur A. Okun, professor of economics, Yale University and member of President's Council of Economic Advisors, "The Gap Between Actual and Potential Output in the American Economy."

Psychology Colloquium, 8 p.m., Room 117 Home Economics, Dr. Frank Restle, professor of psychology Indiana University, on "The Concept of a Unitary Event and its Application in Psychology."

Electrical Engineering Seminar, 4 p.m., Room 207 Electrical Engineering. Walter L. Faust, research department, Bell Telephone Laboratories, on "Optical Masters."

Talk by Bradford Lyttle, executive secretary, Committee for NonViolent Action, on "Civil Defense," 12:30 p.m., Memorial Lounge, The Chapel. At 3 p.m., The Chapel,

a talk on "Disarmament." At 8 p.m., Mineral Industries Auditorium, with slides, a talk on his experiences in Moscow.

Meeting of Penn State chapter, American Association of University Professors, 7:30 p.m., Room 124 Sparks. Annual business meeting.

Wednesday, April 18

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Lothar Weyher, graduate assistant, on "Factors in Design of Friction-Sheave Hoists."

History Round Table, Chapel lounge, 7:30 p.m. Carlos Astiz, on "The Political Situation in Argentina in Reference to the Political Parties."

Thursday, April 19

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Donald Flom, General Electric Research Labs, on "The Chemistry of Materials in Space."

Mechanical Engineering Seminar, 3:55 p.m., Room 105 Mechanical Engineering. Joseph B. Mayers and Eugene E. Gardner, on "Combustion Chamber Flow Studies."

Friday, April 20

NDEA French Institute lecture, 7:30 p.m., Home Economics Living Center. Dr. R. Wallace Brewster, professor of political science, on "Problem of Organizing Political Authority in France."

Center Stage production of Shaw's "Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

Television Listings

(for week of April 16, WFBG-TV Altoona)

Farm, Home, and Garden - 1-1:30 p.m.

Monday — Delores Williams.

Tuesday — Craig Oliver.

Wednesday — John Tait.

Thursday — George Settlemyer.

Friday — to be announced.

Folio 15 - 9-9:15 a.m.

Monday — Dr. S. Earl Thompson, head of hotel administration department.

Tuesday — Karl M. Hoffman, editor and publisher, Jack and Jill magazine.

Wednesday — Dr. D. H. McKinley, associate dean of Business Administration.

Thursday — James W. Markham, professor of journalism.

Friday — Naomi LeB. Naylor, child development and family relationships.

Senate —

(Continued from page two)

Committee on Student Affairs, and in order to relate its duties to the policy making functions set forth in the By-Laws of the Senate (Article II, Section 2-O), the Senate Committee on Committees recommends that the following changes be made in the Senate Policies and Rules for Undergraduate Students:

1. Delete paragraph 1 of Rule Y-11.*
2. Substitute for the first sentence of the first paragraph of Rule W-13, the following: *Student organizations shall be responsible . . . (no change).**

*Rules Y-11 and W-13 appear as Appendix E in January 9, 1962 Senate Reports.

This Committee moves that these recommendations be referred to the Senate Committee on Rules for appropriate action and report at the next meeting of the Senate.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

Elton Atwater asked if there were any plans for the faculty to review the academic implications of the Term System. The Chairman stated that the original plans for the Term System did not call for a periodical re-examination. He referred to several informal ways in which evaluations are currently being conducted. Mr. Atwater moved that the Educational Policy Committee be instructed to review the Term System. The motion was seconded. Miss Ruth Ayres moved a substitute motion that the Educational Policy Committee should be instructed to review the Term System in the sense of making an analysis of its assets and liabilities. The motion was seconded. Mr. Atwater accepted the substitute motion. J. J. Schanz reviewed the current efforts of the Educational Policy Committee to evaluate the Term System. The motion was passed.

The next regular meeting of the Senate will be on Tuesday, May 1, 1962, at 3:55 p.m.; the agenda will be distributed on April 17, 1962. The Colleges are reminded that the names of the elected senators are to be submitted IN WRITING to the secretary before the May 1 meeting. The meeting adjourned at 4:35 p.m.

Robert G. Bernreuter
Secretary

faculty BULLETIN

Vol. 49, No. 37

April 13, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

**1 Weekly Publication
The Pennsylvania
State University**

CALENDAR

Friday, April 20

NDEA French Institute lecture, 7:30 p.m., Home Economics Living Center. Dr. R. Wallace Brewster, professor of political science, on "Problem of Organizing Political Authority in Francee."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Joseph Sternberg, chief of the Exterior Ballistics Laboratory, Aberdeen Proving Ground, Aberdeen, Md., on "The Laminar Sublayer of a Turbulent Flow."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. S. Bhagavantam, director, Indian Institute of Science, on "Some Aspects of Crystal Physics."

Good Friday Service, 12 noon to 3 p.m., The Chapel, led by various ministers of campus and community.

Saturday, April 21

Varsity golf, vs. Pennsylvania, 1:30 p.m.; varsity tennis, vs. Army, 2 p.m.; freshman baseball, vs. Altoona Campus, 2 p.m.

Sunday, April 22

Easter Sunrise Service, 6 a.m., front of Old Main. The Rev. P. Barrett Rudd, speaking on "With Fear and Joy."

Protestant Service of Worship, 9 a.m., The Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Easter Choral Music composed by George E. Ceiga, University organist, with Chapel Choirs, brass ensemble, Chapel organist Dr. Leonard Raver. Dr. Luther H. Harshbarger speaker. (Telecast by WFBG-TV, Altoona.)

Hillel Foundation Cultural Film Series, 8 p.m. "Sword in the Desert," saga of Israel's struggle for independence.

Monday, April 23

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Robert E. Eiche, Altoona Campus director, on "Development Program for Commonwealth Campuses."

(Continued on page four)

Symphony concert

Theodore K. Karhan, associate professor of music, will conduct the University Symphony Orchestra in its annual Spring Concert Sunday, April 29 at 3:15 p.m. in Schwab Auditorium.

The program will have as cello soloists Orlando Cole, David Anderson, and David Cole in David Popper's "Requiem for Three Violoncelli and Orchestra."

Other music on the program will include Johann Strauss's "The Gypsy Baron Overture;" Gabrielli's "Sonata Pian e Forte;" Boccherini's "Concerto in B-flat Major;" and Richard Wagner's "The Good Friday Spell" from Parsifal and the prelude to Act III of Lohengrin.

Mateer

The schedule of plays at Mateer Playhouse this summer includes four comedies, two dramas, and a musical review. The ten-week program includes three plays which will run for two weeks each.

Dr. Walter H. Walters, head of the department of theatre arts, points out that a five-night operation will be in effect this year, opening nights being on Tuesday. Purpose of the change, he explains, is to enable the director and cast to prepare each production with more polish through extra rehearsal and technical preparation.

The complete schedule:

June 19-23 — "The 49th Cousin" by Florence Lowe and Caroline Francke.

June 26-July 7 — "Period of Adjustment" by Tennessee Williams.

July 10-14 — "Tiger at the Gates," by Christopher Fry.

July 17-28 — "A Thurber Carnival," by James Thurber.

July 31-Aug. 4 — "All the King's Men," by Robert Penn Warren.

Aug. 7-18 — "Send Me No Flowers," by Norman Barasch and Carroll Moore.

Aug. 21-25 — "Blood, Sweat and Stanley Poole," by James and William Goldman.

Library grant

The first grant to the University under the Library Code approved by the 1961 Legislature was presented to the University last week.

A check for \$10,000 was presented to President Walker by Ralph Blasingame, Jr., State librarian. The initial grant will be used for planning purposes.

The University Library, along with the State Library at Harrisburg, the Carnegie Library in Pittsburgh, and the Free Library of Philadelphia, has been designated as a regional resource library.

Easter service

Chapel Service at Schwab Auditorium Sunday, April 22, will be an Easter choral service, music for which was composed by University organist, George E. Ceiga, in 1958.

Dr. Luther H. Harshbarger, University chaplain, will preach the sermon and will be assisted in the service by Rev. P. Barrett Rudd.

The Chapel Choir, conducted by Willa C. Taylor and James W. Beach, will be aided in the music by a brass choir, directed by Rex Rockwell, and by Chapel organist, Dr. Leonard Raver.

WFBG-TV, Altoona will telecast the service at 11 a.m. Those planning to attend should arrive well before the start of the service since it will be difficult to seat anyone who is late.

Good Friday

A service of prayers and meditations will be conducted Good Friday, April 20, at the Helen Eakin Eisenhower Chapel 12 noon to 3 p.m., led by campus pastors Sam Gibson, P. Barrett Rudd, and Richard Nutt.

Meditations on each of the seven last words of Jesus on the Cross will be held at approximately 25 minute intervals. Students and faculty members are invited; they may arrive and leave at the conclusion of any of the meditations they desire. The meditations themselves will be given by the following ministers and laymen: William Watson, Arthur Seyda, Melvin Whitmire, Bruce Kuhre, Genevieve Dilts, Donald McIlvride, and Robert Boyer.

Sunrise services

An Easter Sunrise Service will be held on the steps of Old Main Sunday, April 22, at 6 a.m.

The Rev. P. Barrett Rudd will preach on the subject, "With Fear and Joy." A choir of 70 voices and a nine-piece brass group will be directed by James W. Beach.

Examinations

The regular written Foreign Language Examinations will be held at the University Monday, April 23, at 7 p.m.; those in French and Spanish in 10 Sparks, in German in 121 Sparks. The exams in English will be given at the time assigned during the oral examination.

The conflict examination in French and Spanish will be held on Tuesday, April 24, at 7 p.m. in 12 Sparks.

Enrollment changes, 1953-1961

SINCE 1953 there has been a steady rise in undergraduate enrollment in seven of the nine colleges, but the most dramatic increase has taken place in the College of Education which now (Fall, 1961 statistics) enrolls one-fifth of all the baccalaureate candidates at University Park.

On the other hand, graduate student enrollment showed the most drastic change in the Colleges of the Liberal Arts and Engineering and Architecture.

(Note: 1953 was chosen for comparison since it was the first year of the College of Business Administration.)

Nine years ago Engineering and Architecture enrolled 21.7 per cent of the undergraduates, Liberal Arts 18.3, and Agriculture and Education a little more than 12 per cent. Engineering reached a peak, in percentage terms, in 1955 with more than a fourth of the undergraduates but although enrolling the same number since then, has undergone a decline percentage-wise and now is second to Education which has increased by 148 per cent since 1953.

Nearly 50 per cent

The average increase for the nine years is 49.6 per cent of undergraduates and, in addition to Education, Business Administration, and Liberal Arts have increased at above-average pace while Chemistry and Physics, Engineering, Mineral Industries, and Physical Education, although showing increases, have not grown as rapidly as the University as a whole. Agriculture and Home Economics have shown slight decreases.

(These statistics apply only to University Park. Enrollments at Commonwealth Campuses, increased in baccalaureate programs by 57 per cent in the 1953-61 period, are distributed in almost the same manner as University Park; however, enrollments in Home Economics and Mineral Industries are somewhat lower in relative terms and Education, Engineering, and Chem-Physics are slightly higher.)

During the nine-year period there has been a shifting of emphasis from science-technology to other fields. As noted, Engineering reached a peak in 1955 and in the same year, Liberal Arts was at its lowest, enrolling only 12.7 per cent of the undergraduates, as was Education, with only 11.6 per cent. Business Administration reached its highest point, 13.4 per cent, in

1956. Chemistry - Physics has varied between 8.1 and 6.9 per cent, Physical Education between 2.6 and 2.1 and Agriculture and Home Economics, have shown steady declines. Mineral Industries maintained its pace until 1958 but has since declined each year.

Graduate enrollments have increased in nearly all fields but especially so in Liberal Arts, Engineering, and Business Administration, all of which maintained a faster rate of growth than the average, and Chemistry-Physics which has grown at average pace of 61 per cent increase in nine years.

Education, in 1953, enrolled 28.2 per cent of the graduate students but today has only 17.7 per cent while Liberal Arts went from 13.1 to 19.1 per cent in the same period. Chemistry-Physics is now third, with 15.3 per cent of graduate students, replacing Agriculture, which decreased from 17.0 to 13.4 per cent, although showing a 27.5 per cent increase in actual enrollment.

Undergraduate Enrollment 1953 - 1961

% Change 1953 - 61 +	College	1953 9970	1957 12222	1961 14928
	Total		Per cent of total	
- 1.0	Agriculture	12.6	10.4	8.4
+ 108.9	Business Ad.	8.0	12.3	11.1
+ 39.4	Chem-Phys	8.1	6.9	7.5
+ 148.0	Education	12.1	13.9	20.0
+ 31.7	Eng-Arch	21.7	23.2	19.1
- 7.2	Home Econ	7.8	5.9	4.8
+ 52.8	Lib Arts	18.3	14.1	18.6
+ 8.8	Mineral Ind	4.8	4.8	3.5
+ 34.8	Phys Ed	2.3	2.6	2.1
+ 65.4	DOC	4.4	5.9	4.9

Graduate Enrollment

% Change 1953 - 61 +	College	1953 1337	1957 1650	1961 2152
	Total		Per cent of total	
+ 27.5	Agriculture	17.0	16.2	13.4
+ 1525.0	Business Ad	0.3	2.5	3.0
+ 61.3	Chem-Phys	15.4	14.5	15.3
+ 0.9	Education	28.2	24.5	17.7
+ 114.0	Eng-Arch	8.0	8.6	10.7
+ 54.5	Home Econ	3.3	3.9	3.2
+ 134.0	Lib Arts	13.1	11.6	19.1
+ 58.5	Mineral Ind	12.5	13.8	12.5
+ 46.6	Phys Ed	2.2	1.9	2.0
	General		1.9	2.3
	Interdis.			0.8

Construction

The Board of Trustees last weekend approved preliminary plans for construction of an Earth Sciences Building, Conference Center, the second unit of the Education-Psychology complex, Life Sciences Building, and an addition to Recreation Building.

Final plans for all of these buildings are expected to be completed before the end of the year. Construction is scheduled to start on the Education unit and Life Science Building before the end of the year; on the Conference in January; and on the others not later than March.

Fellowships

Sixteen Penn State graduate students, a Bucknell University senior, and a December Penn State graduate have been awarded National Science Foundation Cooperative Graduate Fellowships. Stipends of \$2400 will be paid each of the students and the Foundation will also pay their tuition.

Fields of study represented by the 18 students are chemistry, chemical engineering, geochemistry, mathematics, metallurgy, meteorology, nuclear engineering, solid state technology, and zoology.

Ten NSF Summer Fellowships (1962) have been awarded to graduate teaching assistants. These fellowships, which provide a weekly stipend of \$75 for ten to 12 weeks plus tuition, enable teaching assistants to devote full time to graduate study during the summer.

Library gift

Contributions by individuals, retail stores, service clubs, and industries in Jefferson County, along with Penn State alumni, have made possible the establishment of a reference library in Jefferson House, 38-man residence unit in East Hills.

Members of Pomona Grange canvassed the county and raised \$1,130 and alumni of the county added to the fund to top the \$1,200 goal set in the campaign.

Allegheny County conducted a similar campaign for the house named in its honor.

Stern concert

The final Artists Series program of the season will be given by the noted violinist, Isaac Stern, Friday, April 27, at 8:30 p.m. in Schwab Auditorium.

Tickets for the concert will be sold to the public Wednesday and Thursday, April 25-26 at the HUB desk.

Reading

The 14th annual Pennsylvania Intercollegiate Interpretative Reading Festival, sponsored by the Speech Department, The University Readers, and oral interpretation classes, will be held Thursday and Friday, April 26-27.

Included in the Festival program are readings in poetry, drama, and short story. The annual banquet will be held in the HUB Thursday evening at 6 p.m.

Faculty representatives from many of the Commonwealth Campuses as well as from Clarion, East Stroudsburg, Indiana, Kutztown, and Shippensburg State Colleges, Juniata, Saint Francis, and Wilson Colleges will be present.

Faculty members participating in the program include: Robert Reifsnieder, associate professor of theatre arts, who will speak on "Following the Playwright's Blueprint" at the Friday morning session; and Robert E. Galbraith, professor of English, who will speak on "The Modern Writer's Art" at the Friday afternoon session.

The Festival Committee includes Mrs. Harriett Nesbitt and Dr. William Hamilton, of the Speech Department.

Sigma Xi banquet

The annual banquet and initiation of new members of Sigma Xi, national science honorary, will be held Wednesday, April 25 at 6 p.m. in the Nittany Lion Inn.

Dr. E. F. Osborn, vice president for research, will address the meeting on the subject, "The Research Program of the University."

Day centers

A total of ten Day Care Centers will be operated by the University for children of migrant workers in Pennsylvania this summer.

Recreational activities, instruction, and meals for children from 3 to 14 years of age will be provided by the department of child development and family relationships, directed by Dr. Winona L. Morgan.

Federal funds will support the project and private funds will underwrite the educational programs at the centers.

Penn State has been in charge of Day Care Centers for migrant children since 1956. Mrs. Naomi LeB. Naylor, instructor in child development and family relationships, who has been in charge of the centers since 1959, will serve as co-ordinator of the 1962 program.

Graduate enrollment discussed

(This is one of a series of reports issued periodically by the President's Office on matters of mutual concern to the faculty and the administration.)

WITH great reluctance, the University has found it necessary to place a ceiling on the enrollment of graduate students during the next year, just as it has frozen the undergraduate enrollment at its Fall 1961 level. Without considerably more money, it would be imprudent to increase the number of students in any category this year.

There are a few isolated circumstances, however, in which a department or area may find it feasible to add graduate students without any increase in cost to the University. Such is the case with certain grants from public or private sources which provide not only tuition costs for the graduate student but which also reimburse the University for all other costs of maintaining the student.

There are few grants of this type. Most grants provide tuition and overhead cost; however, tuition charges do not cover the entire cost of maintaining the student. Undergraduate and graduate students alike are partially subsidized by the Commonwealth, and unless the appropriation provides this subsidy, the amount must be made up from other income. Also, overhead charges are seldom totally covered since some organizations restrict the payment of overhead charges to a fixed percentage and usually below that needed to cover costs completely.

It is not possible to set a definite figure to represent the cost of maintaining all graduate students since the costs vary so widely. Each case must be considered individually. Therefore, a procedure has been established to consider requests of deans to add graduate students as research aides under certain circumstances where it is thought that no additional cost would accrue to the University. For each such case, the Controller will consider the specific contract and the specific duties of the students, approving or refusing on the basis of costs involved.

A few approvals have already been given to requests for graduate students outside the quota; some other cases have been refused because the costs involved were not entirely covered by new money.

The procedure, of course, pertains only to new graduate students, and not replacement of those currently enrolled. About 1,000 graduate students will have left the University, for various reasons, by the start of the Summer Term. Admission will be granted to approved candidates to replace those who have left, under the same procedures used in the past.

NEWS IN BRIEF

➤ **JUDGING:** Michael Fitzgibbon, senior in horticulture, won top honors in competition with 53 other contestants from colleges and universities all over the country at the recent National Flower Judging Contest. Dr. P. B. Pfahle, assistant professor of floriculture, is coach of the team, which placed second among 18 teams. In seven of the last 14 contests, his teams have won one of the top three awards.

➤ **CONSERVATION:** The Junior Conservation Camp, which has been held by the University since 1948, will be held again this year at Stone Valley under the sponsorship of the Pennsylvania Federation of Sportsmen's Clubs and the University. Charles W. Stoddart, Jr., director of continuing education for the College of Physical Education and Athletics, serves as director of the campus, which enrolls high school freshmen and sophomores from all sections of the State. Four camps are held between July 1 and Aug. 25.

➤ **AWARD:** Dr. Andrew A. Benson, professor of agricultural and biological chemistry from 1955 until his resignation last year, is one of five Americans to receive the Ernest O. Lawrence Memorial Award, given annually by the Atomic Energy Commission for distinguished research work in the interest of the atomic energy program. Dr. Benson is now at the University of California at Los Angeles.

➤ **WINNER:** The book collection competition sponsored by the University Library and four local book stores was won by Bernard M. Goldsmith, senior in arts and letters. His winning list of books will be submitted for the national Amy Loveman Award of \$1,000. Judges for the contest were William L. Werner, professor emeritus of American literature; Dr. Henry Finch, professor of philosophy; and Dr. Richard B. Gidez, assistant professor of English.

➤ **NOTE:** There will be no theatre arts production at Center Stage April 20 and 21 because of the Easter season activities.

Personnel matters

James H. Coogan, director of the department of public information, and member of the staff of the University since 1942, died Thursday, April 12, while attending an alumni meeting at Haddonfield, New Jersey. A 1930 graduate of Penn State, he had worked on newspapers in Berwick and Shendoah before joining the staff in Continuing Education, then General Extension. He was sports publicity director in public information from 1943 to 1958 and assistant director of the department. He succeeded the late Louis H. Bell as director in 1958.

Dr. Milton S. Osborne, head of the department of architecture and professor of architecture, will retire July 1 with emeritus rank. He joined the faculty in 1946, coming from the University of Manitoba, Winnipeg, Canada, where he was director of the department of architecture and fine arts, for 15 years. Prior to that he was on the faculty and served as acting dean of the School of Architecture from 1925 to 1929. He is a graduate of Ohio State and Columbia universities, received a master's degree at Columbia, and was granted an honorary degree of doctor of laws by the University of Manitoba. He has served as architect or advisor for many significant projects, including the restoration of the farmhouse owned by former President Dwight D. Eisen-



Osborne

hower, and for a number of communities in the State seeking to achieve a new appearance in their business districts.

Dr. Walter Coutu, professor of sociology, will retire July 1 as emeritus professor. Appointed to the faculty originally in 1944 as associate professor, Dr. Coutu was named professor in 1949. Prior to coming here he was director of research of FSA, in Washington, and previously had taught at the University of Texas and University of Georgia. A graduate of the University of Wisconsin in English, he obtained his doctorate at Wisconsin, in sociology. In 1960, he was one of two members of the faculty of the College of the Liberal Arts to receive a citation for Excellence in Teaching.



Coutu

Dr. Sidney A. Bowhill, associate professor of electrical engineering, has resigned, effective Aug. 31, to accept a position as professor at the Graduate Research Center of the Southwest Institute for Advanced Study in Dallas, Tex.

Dr. Philip Young, professor of American literature, has been awarded a Fulbright Fellowship to lecture in Italy from January to June, 1963, presenting a series of lectures on American literature at a number of Italian universities. He will also continue to do research for his book on "Studies in Classic American Myth."

Calendar —

(Continued from page one)

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. A. Wilkov, on "Dislocations and Point Imperfections."

Tuesday, April 24

College of Home Economics faculty meeting, 3:55 p.m., Room 209 Home Economics South.

Monthly meeting, American Federation of Teachers, Local 500, 7:30 p.m., Room 307 Boucke. Open to all interested faculty and library staff.

Biological Science Lecture Series, 4 p.m., Room 112 Buckhout. Dr. Robert H. Coots, Proctor and Gamble Co., on "Biosynthesis of Uniformly Labeled Fatty Acids and Fatty Acid Metabolism."

Wednesday, April 25

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Joseph Pinto, mine superintendent, National Gypsum Co., on "Joy-Craig Raise Climber."

Annual banquet and initiation of Sigma Xi, 6 p.m., Nittany Lion Inn. Dr. E. F. Osborn, vice president for research, on "The Research Program of the University."

Thursday, April 26

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. T. Moeller, University of Illinois.

Fourteenth Reading Festival, sessions at 2 p.m. and 8 p.m. in HUB Assembly Room and annual banquet in HUB dining room "A" at 6 p.m.

Friday, April 27

Artists Series program by Isaac Stern, violinist, 8:30 p.m., Schwab Auditorium.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Yih-Ho Pao, department of mechanics, The Johns Hopkins University, on "Diffusive Quantities in Turbulent Fluid."

Fourteenth Reading Festival, sessions at 9:30 a.m. and 1:15 p.m., HUB Assembly Room.

Center Stage production of Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

faculty BULLETIN

Vol. 49, No. 38 April 20, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. Paul W. Bixby, professor of education, has been named associate dean of the College of Education, effective May 1. He fills the position formerly held by Dr. Abram W. VanderMeer, now dean. Dr. Bixby has been a member of the faculty since 1947, serving as assistant dean for continuing education since 1958 and for the past year as director of the Peace Corps program. He is a graduate of the St. Cloud (Minn.) State Teachers College, and received master of arts degree from the University of Minnesota and doctor of education from Columbia.

Dixon Johnson, scientific information officer of the University, has been named director of the department of public information, succeeding James H. Coogan, who died April 12. Johnson is a graduate of the University of Missouri School of Journalism and has done newspaper work in Nashville, Tenn., and at Oak Ridge, was head of the information department at Oak Ridge Institute of Nuclear Studies, and was vice president of a New York public relations agency before coming here in 1960.

Dr. R. Adams Dutcher, professor emeritus of agricultural and biological chemistry, died in Florida April 20 at the age of 76. He was head of the department of ag biochem for 30 years prior to his retirement in 1951. Prior to coming here he had served on the faculty of South Dakota State College, University of Missouri, University of Illinois, Oregon State College, and University of Minnesota.

Economics

Two programs of lectures on "The Economics of Kennedy" will be presented by the department of economics Monday, April 30, and Monday, May 7.

The University community — including students, faculty, and general public — is invited to attend the lectures, which will be given in the HUB Assembly Room at 8 p.m.

The first program, on April 30 will present Dr. J. J. Kaufman, speaking on "Collective Bargaining and Wage-Price Guides;" Edward C. Budd, on "The Budget: Growth and Full Employment;" and Philip A. Klein, on "The New Frontier and the Welfare State."

The second program will include lectures by Marvin E. Rozen, Vaclav E. Mares, and Jan S. Prybyla.

Opportunities for discussion will follow the formal lectures.

Singers

The Penn State Singers, directed by Raymond Brown, will present its second concert of the year May 5, at 8 p.m. Because of the increasing popularity of the program, the concert will be given in the HUB Ballroom, and students, faculty, and area residents are invited.

In addition to madrigals and other choral numbers by the 20-voice Singers, solo vocal and instrumental performances as well as duets and quartets will be given. A quartet of male voices will sing three compositions by Henry Purcell; Dr. Leonard Raver, Chapel organist, will play three sonatas by Scarlatti; a brass quartet will accompany the chorus in a Pachelbel Cantata and Purcell's music for the funeral of Queen Mary II; a duet of female voices accompanied by Dr. Raver will sing a madrigal by Kriegel; and Wilhelm Bach's Sonata in E minor for two flutes will be performed.

Narcotics

The Honorable Harry J. Anslinger, U. S. Commissioner of Narcotics, will be the speaker at the regular Faculty Luncheon Club Monday, April 30, at 12:30 p.m. in HUB dining room "A", on the subject, "International Control of Narcotics." (Tickets are sold at the HUB desk for the luncheon.)

Mr. Anslinger, who was a two-year agriculture student here 1913-15, has established the Harry J. Anslinger Collection in the Pattee Library, consisting of his books, papers, and documents relating to narcotics controls, particularly in the field of international agreements.

Enrollment

Total enrollment for the Spring Term is 21,337, down 511 from the Winter Term but 1,257 above that of 1961 Spring Semester. Most of the decrease from the Winter Term is at University Park, among undergraduates.

Including full-time and part-time students, there are 18,629 undergraduates, 2,426 graduates, and 282 special students on the rolls. University Park enrollment is 16,015, and that of Commonwealth Campuses and Off-Campus classes is 5,322.

Full-time enrollment at all locations totals 17,171.

Europe flights

Under new provisions which make group rates for air travel to Europe possible, three flights are being arranged now which are available to University faculty and staff members, their spouses and dependent children, and students, who have been here for six months or more.

The three flights are scheduled as follows, with the name of the person arranging the flight and his telephone number indicated:

Leave New York June 14 and return from London July 25, \$278, Dr. Vladimir Stubican, AD 8-2140.

Leave New York June 27 and return from London July 13, \$289, Dr. Erwin Schmerling, AD 8-6037, and UN 5-6337.

Leave New York July 3 and return from London Sept. 6, \$300, Dr. Lowell Schoenfeld, AD 8-9528 or Kenneth Kraus, UN 5-7374.

Each of the persons indicated will provide more information concerning the sale of tickets, etc.

Symphony

The annual spring concert of the University Symphony Orchestra will be held Sunday, April 29 at 3:15 p.m. in Schwab Auditorium. Cellists Orlando Cole, Donald Anderson, and David Cole will be featured in the program which includes music by Johann Strauss, Giovanni Gabrieli, Luigi Boccherini, David Popper, and Richard Wagner.

Cancellation

Because of illness, H. Richard Niebuhr, professor of theology and Christian ethics, Yale University Divinity School, will be unable to give the Chapel sermon Sunday, May 13, or the Graduate School Lecture Monday, May 14, as previously scheduled.

NEWS IN BRIEF

➤ **EXHIBITION:** Twelve original prints by Joan Miro, noted Spanish-born artist and leader in the surrealist movement, are on display in the art gallery, Room 105, Temporary Building. The exhibit includes six color lithographs, four etchings, and two etchings and aquatints.

➤ **STERN:** Isaac Stern, one of the foremost violinists in this country, will present the final Artists Series program this evening (Friday) at 8:30 p.m. in Schwab Auditorium. The program will include works by Beethoven, Bach, Stravinsky, Mozart, and Paganini-Szymanowski.

➤ **BLOODMOBILE:** The Red Cross Bloodmobile will be at the State College Presbyterian Church Tuesday, May 1, from 10 a.m. to 4 p.m.

➤ **SOVIET:** Ralph T. Fisher, Jr., director of the Center for Russian Language and Area Studies at the University of Illinois, will speak on "Soviet Youth" May 21, sponsored by the department of history and the Russian Area Committee. Fisher's book, "Pattern for Soviet Youth" is generally recognized as an authoritative and pioneer study of the Komsomol, official Soviet youth organization.

➤ **OGONTZ:** Of the more than 4,000 graduate and undergraduate students enrolled from the five southeastern counties of the Commonwealth, the Ogontz Campus enrolls one-fifth. Of the 1700 from the City of Philadelphia, one-third are at the Ogontz Campus.

➤ **TESTING:** The Soil Testing Laboratory in the College of Agriculture reports having made 6,100 soil samples during the first half of April and expects to make more than a quarter of a million by the end of the year. The tests, available to anyone, help in making recommendations for lime and fertilizer requirements.

➤ **LONG-RANGE:** The Board of Trustees, at its most recent meeting, reaffirmed long-range plans of the University to provide for enrollment of 25,000 students at University Park and 10,000 at Commonwealth Campuses by 1970.

➤ **BUILDING:** The new Earth Sciences Building will have seven floors and approximately 114,000 square feet of floor space, containing a large and well-equipped seismic observatory and improved facilities for meteorological research, including a modern weather observatory. It will be con-

structed south of the present Mineral Sciences Building.

➤ **RUSSIAN:** A conference on the teaching of Russian in the State will be held May 18 and 19, to bring together the rapidly increasing number of teachers of Russian to enable them to discuss common problems. More than 55 high schools in Pennsylvania have Russian programs. Attending the conference will be representatives from elementary, secondary, and college institutions.

➤ **BICYCLES:** A third registration and inspection of student and faculty bicycles at the University will be held at the University Saturday, April 28, from 10:30 a.m. to 3:30 p.m. in Parking Areas 46 and 86. The inspection is free and will serve for both the campus and the Borough of State College, which requires that all bicycles ridden on Borough streets must be in-

spected and registered. The deadline for Borough registration is May 26.

➤ **CAREER DAY:** More than 30 companies will take part in the annual Career Day Exposition May 1 and 2 (Wednesday and Thursday) at the Hetzel Union Building. Purpose is to enable students to speak with representatives about careers available in their firms. The exposition is open to the public from 9 a.m. to 5:30 p.m. Tuesday and from 9 a.m. to 4 p.m. Wednesday.

➤ **BUILDING:** Preliminary plans approved for the Life Science Building to be constructed west of Frear Laboratory call for a seven-story structure of 66,150 square feet, to be joined to Frear Lab by an underground passageway. It will be occupied by the department of zoology and the biophysics group of the College of Chemistry and Physics.

CALENDAR

Friday, April 27

Artists Series program by Isaac Stern, violinist, 8:30 p.m., Schwab Auditorium.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Yih-Ho Pao, department of mechanics, The Johns Hopkins University, on "Diffusive Quantities in Turbulent Fluid."

Fourteenth Reading Festival, sessions at 9:30 a.m. and 1:15 p.m., HUB Assembly Room.

Center Stage production of Shaw's "The Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. D. Schoenberg, Cavendish Laboratory, University of Cambridge, on "Fermi Surfaces of the Noble Metals."

Saturday, April 28

Varsity golf, vs. Syracuse, 1:30 p.m.; varsity tennis, vs. West Virginia, 2 p.m.; varsity lacrosse, vs. Rutgers, 2 p.m.

Center Stage production of Shaw's "The Destiny of Man" and Beckett's "Krapp's Last Tape," 8 p.m.

Sunday, April 29

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. P. Barrett Rudd.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Col. Frances P. Miller, Department of State, Washington, D.C., on "So God Created Man in His Own Image."

University Symphony Orchestra Concert, 3:15 p.m., Schwab Auditorium. Guest cello soloists, Orlando Cole, David Cole, and Donald Anderson, conducted by Theodore Karhan.

Hillel Foundation Cultural Film Series, 8 p.m. "Bolshoi Ballet," includes entire Giselle and other ballet performances.

Monday, April 30

Economics Lecture Series, 8 p.m., HUB Assembly Room. Dr. J. J. Kaufman, Edward C. Budd, and Philip A. Klein, on the theme, "The Economics of Kennedy."

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Harry J. Anslinger, U. S. Commissioner of Narcotics, on "International Control of Narcotics."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. P. Smith, on "Experi-

mental Verification of the Presence of Imperfections."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. G. K. Czamanske, department of geology, Massachusetts Institute of Technology, on "Finnmarka Igneous Complex, Oslo District, Norway."

Tuesday, May 1

Electrical Engineering Seminar, 4 p.m., Room 206 Electrical Engineering. Dr. J. N. Packard, research engineer, Martin Co., on "Optical Correlation of Graphic Images."

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A". Kelvin J. Lancaster, London School of Economics, on "The Current Status of Consumer Theory."

Home Economics Research Seminar, 12:30 p.m., HUB dining room "C". Dr. Ruth W. Ayers and Dr. Barbara E. Densmore, on "Factors that Contribute to Satisfaction in Clothing."

Faculty Women's Recreation, 2:30 to 4 p.m., White Building. Swimming, badminton, and bowling.

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Varsity baseball, vs. Maryland, 3:30 p.m.; varsity tennis, vs. Lehigh, 3:30 p.m.

Thursday, May 3

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Chemistry Colloquium, 302 Whitmore, 12:40 p.m. Dr. Ronald Breslow, Columbia University.

International Film Series, HUB assembly room, 3, 7, and 9 p.m., "Citizen Kane."

Two Physics Colloquiums with Dr. Peter Shaw, Carnegie Institute of Technology, at 1:30 p.m. in Room 216 Osmond, on "Inelastic Effects in the Resonance Region of Pi-N Scattering" and at 4:15 p.m. in Room 117 Osmond, on "Polarization Effects in High-Energy Pi-N Scattering."

Friday, May 4

Center Stage production of Shaw's "The Man of Destiny" and Beckett's "Krapp's Last Tape," 8 p.m.

NDEA French Institute lecture, 7:30 p.m., Home Economics Living Center: Dr. Norman Spector, University of Chicago, on "Aspects of Moliere's Comedy: L'Etourdi, and L'Ecole des Femmes." Lecture in English.

Items of Interest

ELECTED AND APPOINTED

- ANDREWS, FRANCES M., music education, elected to the executive committee of the Board of Directors, Music Educators National Conference, 1962-64.
- DEVINNEY, R. N., English at Allentown, appointed judge at the 16th annual national intercollegiate debate tournament at West Point.
- MILLER, E. W., geography, elected fellow of the International Institute of Arts and Letters.
- PROUT, J. H., Ordnance Lab, elected first president of the Central Penna. Chapter of the Acoustical Society of America.
- SNYDER, W. U., psychology, elected to the American Academy of Psychotherapists.
- WEIDHAAS, E. R., engineering graphics, appointed to the Course Content Development Study in Graphical Analysis and Computation.
- WOOD, MERRILL, zoology, reelected treasurer of the Wilson Ornithological Society.

LECTURES AND TALKS

- ANDERSON, J. M., philosophy on leave in West Germany, two talks before the Neu-philologen-Verband of West Germany in May, on "Santayana and the Sense of Beauty" and "Dewey and American Education."
- DE LISSOVOY, VLADIMIR, child development and family relationships, a lecture on "Courtship and Marriage," before the Extension Conference for Young Men and Women at Pocono Manor.
- DICKERSON, R. B., Agriculture, a talk on Penn State's Four-Term Plan before the spring conference of the northeastern deans and directors of resident instruction in agriculture.
- GJESDAHL, M. S., mechanical engineering, a talk before the American Society of Tool and Manufacturing Engineers at St. Marys, on "Creative Tool Design."
- HEIDE, E. E., New Kensington, a talk on "Penn State and the Land Grant Centennial" before the New Kensington Rotary Club.
- HOOGENDOORN, ARI, history, a series of lectures at Frostburg, Md., State Teachers College, on "The Real Cause of the Civil War."
- KLAUS, E. E., chemical engineering, two lectures and two seminars before the California Research Corporation, Richmond, Calif., on super-refining techniques for optimizing properties of hydraulic fluids and lubricants derived from petroleum oils.
- LANCASTER, O. E., Engineering Education, talks before the Iowa State University engineering faculty on "Achievement in Small Class, Large Class, and TV Instruction in College Mathematics" and "Exploration and Research on Devices and Methods to Improve Instruction in Technical Subjects."
- MASTALERZ, J. W., floriculture, a lecture on "Progress in Floriculture Research" at a growers' session of a program sponsored by the Connecticut Florists Association during the 21st annual Florists' Day program at Hartford, Conn.
- MATTIL, E. R., art education, the summarizing address at the biennial meeting of the Western Arts Association in Cincinnati on the future of arts in education; also at the Eastern Arts Association meeting in New York.
- MCKINLEY, D. H., Business Administration, a talk on "The Importance of Profits in an Expanding Economy — A Defense Against Government Socialism" before the Industrial Management Club of Lebanon.
- a talk, "Interest Rates over the Next Twelve Months" before the McKean County Bankers Association.
- "Is the Inflation Ending" before the Schuylkill County Real Estate Board.
- MUELLER, E. W., physics, the Eighth Annual Francis Clifford Phillips Lecture at the University of Pittsburgh on "Atomic Structure of Surfaces and Spectroscopic Studies of the Stars."
- talk, "An Introduction to Field Ion Microscopy" before the Science Club of Indiana State College.
- NIEBEL, B. W., industrial engineering, a talk on "New Product Design" before the Naugatuck Valley (Conn.) chapter, American Institute of Industrial Engineers.
- PETSCAVAGE, M. J., Wilkes-Barre, on higher education at the West Wyoming High School P.T.A.
- READ, H. J., metallurgy, a talk before a joint meeting of the Pittsburgh sections of the Electrochemical Society and the American Electroplaters' Society on "Hydrogen Embrittlement in Metal Finishing."
- SHAMMA, MAURICE, chemistry, a talk, "The Stereochemistry of the Fifteen Heterocyclic Alkaloids" at the Second International Congress on the Chemistry of Natural Products, at Prague, Czechoslovakia Aug. 29-Sept. 5.
- lecture on natural products chemistry at the French National Research Center at Gif-sur-Yvette following above talk.
- SMITH, W. M., Jr., a talk on "The Role of Youth in Public Issue" before the Joint Conference on Children and Youth sponsored by the National Committee and Council of National Organizations for Children and Youth.
- SMITH, W. S., theatre arts, a talk on "Preacher of a New Religion" before the Shaw Society of America at the Grolier Club, New York.
- TAFT, R. W., chemistry, talks sponsored by the American Chemical Society at meetings of Society sections in the South and Southwest, in two-week tour.
- TUKEY, L. D., horticulture, "Some Research with Red Cherries in Pennsylvania" at the Red Sour Cherry Research Conference at Michigan State.
- "The Semi-Dwarf Fruit Tree Situation in Pennsylvania" at the annual Dwarf Fruit Tree Association Meeting.
- WEISMAN WINSTON, art and architectural history, a talk on "Architecture Today" at the Wyomissing Center, for the Center, the Wyomissing Institute of Fine Arts, alumni, and area residents.
- WHERRY, R. H., commerce and management, a talk, "The Trend toward Diversification in the Insurance Industry."

ARTICLES AND PAPERS

- ALMQUIST, J. O., dairy physiology, with Amann, R. P., an article in the December issue of the Journal of Dairy Science, on "Reproductive Capacity of Dairy Bulls. V. Detection of Testicular Deficiencies and Requirements for Experimentally Evaluating Testis Function from Semen Characteristics."
- ASQUITH, DEAN, Arendtsville, "Prepare Yourself to Battle Mites" in the Feb. issue, The Pennsylvania Fruit News.
- BARTLETT, H. D., agricultural engineering, with R. W. Tiekner, "Forces in Aluminum Roofing Nails," in the February issue of Agricultural Engineering.

- BRICKMAN, A. D., Ordnance Lab, an article, "Preloading of Acoustic Transducers for High Pressure Operation" in the March issue of the Journal of the Acoustical Society of America.
- CHARMBURY, H. B., mineral preparation, a technical paper at the first European Symposium on Size Reduction, on "The Effect of Crusher Type on the Liberation of Sulphur in Bituminous Coal."
- DE LISSOVOY, VLADIMIR, child development and family relationships, an article in the March issue, of Child Development, on "Head Banging in Early Childhood."
- an article on "Adolescent Husbands and Wives" in the Feb. issue of Forecast.
- a review in the March issue of the Journal of Home Economics of the book by Genevieve Gennari on "The Other Woman I Am."
- DECKER, W. C. and Kniffin, F. W., an article, "Teaching of Undergraduate Sales Management Courses in American Colleges and Universities," in the 1961 Proceedings of the Winter Conference of the American Marketing Association.
- HEXNER, E. P., Business Administration, an article, "Institutional and Practical Limitations on the Activities of the International Monetary Fund" in the 1961 edition of Public Policy, the yearbook of the Harvard University Graduate School of Public Administration.
- INTORRE, JOSEPH, Public Safety, "Some Sociological Considerations with Respect to Motor Vehicle Accidents" in News and Views of the American Driver Education Association.
- LEWIS, F. H., Arendtsville, with J. J. Albert, "Effect of Repeated Applications of Dodine and of Captain on Apple Scab Foliage Lesions" in the March 15 issue of The Plant Disease Reporter.
- MATTIL, EDWARD, art education, three papers at meetings of the Inland Empire Education Association's 60th annual meetings in Spokane, Wash., before art teachers, art and elementary teachers, and industrial art teachers.
- MICHAEL, P. L., Ordnance Lab, "The Status of AGA Research on Sonie Pinpointing of Gas Leaks" at the American Gas Association Conference on Distribution and Underground Storage, at San Francisco.
- MINDER, T. L., Engineering library, "The EJC Engineering Information Symposium" in the March issue of the Journal of Engineering Education.
- MOSER, G. M., Romance languages, a paper, "Contemporary Portuguese Scholarship in North America" at the Symposium on Luso-Brazilian Studies at the University of Wisconsin.
- NEWMAN, MONROE, and Iwandi, Thomas, economics, an article in the January issue of Population Review, on "Valuation of Human Capital."
- NEYHART, A. E., Public Safety, "The Driver Education Abroad," in News and Views of the American Driver Education Association.
- OSIPOW, S. H. and Grooms, R. R., Division of Counseling, a paper on "Semantic Differential Resistance to Response Bias Based on Stimulus Word Position" in the June issue of Psychological Reports.
- PEPINSKY, RAY, physics, author and co-author of six papers at meeting of American Physical Society, with Yasuharu Makita, Bachehan Singh, Yoshiharu Okaya, Hideo Futama, and K. Vedam.
- PIKE, RUTH L., foods and nutrition, a paper on "Sodium, Potassium and Water Levels in Hearts and Adrenals of Pregnant and Non-pregnant Rats on Three Levels of Sodium Intake" at the Federation of American Societies for Experimental Biology.

Registrar Reports on Enrollment for Spring Term, 1962

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	Total
MINERAL INDUSTRIES																
CerT	—	—	—	—	1	23	—	2	8	2	—	8	—	—	—	44
FT	—	—	—	—	—	5	—	1	5	2	1	9	—	—	—	23
Geog	—	—	—	—	—	5	—	—	4	—	1	11	—	—	—	21
GG	—	—	—	—	—	4	1	—	2	—	—	6	—	—	—	13
GM	—	—	—	—	—	4	—	—	4	—	—	2	—	—	—	10
GSc	1	—	—	1	1	14	2	1	7	—	—	2	—	—	—	29
Metal	—	—	—	2	2	22	2	2	13	1	1	30	—	—	—	74
Meteo	—	—	—	1	6	13	5	2	18	3	2	23	—	—	—	73
MnEc	—	—	—	—	—	3	—	1	6	—	—	12	—	—	—	22
MnI	6	1	94	—	—	—	—	—	—	—	—	—	—	—	—	101
MPE	—	—	—	—	—	2	—	1	4	—	—	3	—	—	—	10
MngE	—	—	1	10	—	3	1	—	6	—	—	2	—	—	—	23
PNGE	—	—	1	—	1	1	3	1	1	—	—	14	—	—	—	26
Total	7	1	96	14	10	99	14	11	82	8	5	122	—	—	—	469

PHYSICAL EDUCATION & ATHLETICS

PhEd	2	2	41	8	5	54	10	6	59	2	6	62	—	—	—	257
RecEd	—	—	—	—	1	9	2	—	9	1	—	7	—	—	—	29
Total	2	2	41	8	6	63	12	6	68	3	6	69	—	—	—	286

DIVISION OF COUNSELING

Coun	—	4	364	62	23	268	23	16	59	6	1	6	—	—	—	832
Total	—	4	364	62	23	268	23	16	59	6	1	6	—	—	—	832

TOTAL UNDERGRADUATES

Total	86	86	3438	455	263	3018	534	342	2463	511	245	2199	14	3	24	13680
-------	----	----	------	-----	-----	------	-----	-----	------	-----	-----	------	----	---	----	-------

U. P. Campus

	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Full-time	2349	1245	2258	1447	2169	1106	2146	759	513	113	35	13	9470	4683	14153
Part-time	11	5	15	6	14	13	48	18	1196	285	93	87	1377	414	1791
Study Abroad	—	—	2	7	2	35	2	23	—	—	—	—	6	65	71
Total	2360	1250	2275	1460	2185	1154	2196	800	1709	398	128	100	10853	5162	16015

Other Campuses (see summary below)

Full-time (4-Yr.)	729	298	458	148	32	8	1	1	—	1	12	4	1232	460	1692
Part-time (4-Yr.)	11	—	9	5	4	2	5	2	—	—	14	22	43	31	74
Full-time (2-Yr.)	808	5	511	2	—	—	—	—	—	—	—	—	1319	7	1326
Part-time (2-Yr.)	25	1	46	—	—	—	—	—	—	—	2	—	73	1	74
Total	1573	304	1024	155	36	10	6	3	—	1	28	26	2667	499	3166
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	184	89	928	910	1112	999	2111
Off-Campus Research	—	—	—	—	—	—	—	—	34	11	—	—	34	11	45
Total	1573	304	1024	155	36	10	6	3	218	101	956	936	3813	1509	5322

Summary of Enrollment at Other Campuses

	Four-Year		Graduate & Special		Two-Year		
	FT	PT	FT	PT	FT	PT	Total
Allentown	—	—	—	—	92	5	97
Altoona	206	6	8	10	147	8	385
Behrend	148	4	1	2	91	5	251
DuBois	68	1	1	10	54	—	134
Hazleton	112	4	2	1	88	1	208
McKeesport	130	8	—	3	161	13	315
Mont Alto	96	—	—	—	—	—	96
New Kensington	—	—	—	—	77	7	84
Ogontz	769	12	2	5	76	6	870
Pottsville	146	2	1	6	42	2	199
Scranton	—	—	2	—	90	6	98
Wilkes-Barre	—	—	—	—	145	7	152
Wyoming	—	—	—	1	143	7	151
York	—	1	—	—	120	5	126
Total	1675	38	17	38	1326	72	3166

Recapitulation

U. P. Campus	M	W	Total
Full-Time Undergraduate	8928	4622	13550
Part-Time Undergraduate	88	42	130
Total Undergraduate Students	9016	4664	13680
Full-Time Graduate	513	113	626
Part-Time Graduate	1196	285	1481
Total Graduate Students	1709	398	2107
Full-Time Special	35	13	48
Part-Time Special	93	87	180
Total Special Students	128	100	228
TOTAL MAIN CAMPUS	10853	5162	16015

Other Campuses and Off-Campus

	M	W	Total
Full-Time Undergraduate	2539	462	3001
Part-Time Undergraduate	100	10	110
Part-Time Continuing Education	928	910	1838
Total Undergraduate Students (Off Campus)	3567	1332	4949
Full-Time Graduate	—	1	1
Part-Time Graduate	—	—	—
Part-Time Continuing Education	184	89	273
Off Campus Research	34	11	45
Total Graduate Students	218	101	319
Full-Time Special	12	4	16
Part-Time Special	16	22	38
Total	28	26	54
TOTAL	3813	1509	5322

Graduate, Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	238	27	7	2
Business Administration	61	2	15	4
Chemistry & Physics	288	16	4	3
Education	262	137	37	26
Engineering & Architecture	230	1	10	—
Home Economics	6	62	—	3
Liberal Arts	293	121	45	56
Mineral Industries	241	4	8	3
Physical Education	34	10	—	—
General Graduates	34	18	2	3
Interdisciplinary Fields: B. Phys.	7	—	—	—
SST	15	—	—	—
Total	1709	398	128	100

Totals All Campuses	M	W	Total
Undergraduate Students	12583	6046	18629
Graduate Students	1927	499	2426
Special Students	156	126	282
GRAND TOTALS	14666	6671	21337

Registrar Reports on Enrollment for Spring Term, 1962

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	Total
AGRICULTURE																
ABCCh	—	—	1	1	—	—	1	2	8	—	—	6	—	—	—	19
ABSc	—	1	3	21	19	251	26	9	—	—	—	—	—	—	—	330
AERS	—	—	—	1	—	—	—	1	15	4	1	11	—	—	—	33
AgEd	—	—	—	—	1	—	1	—	22	1	1	29	—	—	—	55
AgJ	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	2
Ag	3	5	184	4	—	1	—	—	—	—	—	2	—	—	—	199
Agro	—	1	—	—	—	—	—	1	7	1	—	7	—	—	—	17
AH	—	—	—	—	—	—	—	3	18	—	3	14	—	—	—	38
Bact	—	—	—	—	—	—	—	—	18	—	1	5	—	—	—	24
BPP	—	—	—	—	—	—	—	—	5	1	1	2	—	—	—	9
Consv	—	—	—	—	—	—	—	—	—	2	—	2	—	—	—	4
DSc	—	—	—	—	—	—	—	1	29	—	—	10	—	—	—	40
FRD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
GnAg	—	—	—	1	—	—	—	1	7	2	—	9	—	—	—	20
Hort	—	—	—	—	—	—	—	1	14	1	2	16	—	—	—	34
LArch	—	—	4	1	2	24	2	—	13	—	—	16	—	—	—	62
MedT	—	—	1	—	—	1	—	—	15	1	1	11	—	—	—	30
PH	—	—	1	—	—	—	—	—	1	—	—	1	—	—	—	3
PV	—	—	—	1	—	—	—	1	19	1	—	—	—	—	—	22
ZE	—	—	—	1	—	—	1	2	25	3	1	22	—	—	—	55
School of Forestry																
For	—	—	1	—	—	—	—	3	11	43	2	51	—	—	—	111
WU	—	—	—	—	—	—	—	—	8	1	1	4	—	—	—	14
2-Yr. Ag	1	2	16	1	—	4	—	—	—	—	—	—	—	—	—	24
Total	4	9	211	32	22	281	31	25	236	62	14	218	—	—	—	1145
BUSINESS ADMINISTRATION																
BA	8	8	305	38	35	370	51	59	319	56	35	309	—	—	—	1593
Total	8	8	305	38	35	370	51	59	319	56	35	309	—	—	—	1593
CHEMISTRY & PHYSICS																
C&P	2	7	323	11	2	1	—	—	1	—	—	—	—	—	—	347
ChE	—	1	6	—	—	56	4	5	56	6	48	—	—	—	—	182
Chem	—	1	—	2	2	42	6	3	29	3	1	33	—	—	—	122
Phys	1	—	—	2	2	44	10	3	30	8	1	28	—	—	—	129
PM	—	—	1	2	2	45	8	4	32	7	3	25	—	—	—	129
Sc	—	—	—	1	—	16	3	1	13	6	2	13	—	—	—	55
Total	3	9	330	18	8	204	31	16	161	30	55	99	—	—	—	964
EDUCATION																
AEd	—	—	—	12	4	31	10	6	33	6	1	21	—	—	—	124
Ed	16	9	522	12	3	—	—	—	—	—	—	—	—	—	—	562
EKEd	2	2	—	39	17	269	47	29	217	43	8	121	—	—	—	794
IArt	—	—	1	1	3	7	4	6	9	4	3	17	—	—	—	55
MuEd	—	—	—	2	3	17	2	—	14	1	2	19	—	—	—	60
Psy	—	—	—	6	13	88	30	18	91	17	15	82	—	—	—	360
RelEd	—	—	—	7	4	22	7	3	13	1	—	5	—	—	—	62
SecEd	—	1	2	24	20	207	45	38	202	33	24	198	—	—	—	794
VIEd	—	—	—	—	—	—	—	—	1	2	—	1	—	—	—	4
Total	18	12	525	103	64	644	145	100	580	107	53	464	—	—	—	2815
ENGINEERING & ARCHITECTURE																
AerSP	—	—	—	3	2	53	12	5	36	10	2	32	—	—	—	155
AgE	—	—	12	1	—	14	—	2	13	1	—	13	—	—	—	56
Arch	1	—	61	3	5	43	4	3	29	3	2	14	2	1	13	184
AE	—	—	13	1	1	7	—	—	3	2	—	8	1	2	11	49
CE	—	—	1	5	1	34	30	7	47	8	5	49	11	—	—	198
EE	—	—	2	16	9	149	40	15	159	46	13	164	—	—	—	613
Engr	11	19	547	24	3	—	—	—	—	—	—	1	—	—	—	605
EMch	—	—	—	—	3	18	4	—	17	3	—	18	—	—	—	63
ESc	—	—	—	—	—	20	3	—	13	1	—	13	—	—	—	50
IE	—	—	—	4	6	30	7	4	21	7	7	50	—	—	—	136
ME	1	—	—	7	7	89	10	11	71	10	7	77	—	—	—	290
SE	—	—	—	—	—	—	—	—	—	—	—	5	—	—	—	5
Total	13	19	636	64	37	457	110	47	409	91	36	444	14	3	24	2404
HOME ECONOMICS																
HEc	—	3	153	27	9	135	21	10	108	34	2	83	—	—	—	585
HA	—	—	1	—	—	—	—	—	—	—	—	13	—	—	—	14
2HFS	—	—	51	2	1	2	—	—	—	—	—	—	—	—	—	56
Total	—	3	205	29	10	137	21	10	108	34	2	96	—	—	—	655
THE LIBERAL ARTS																
AL	1	1	3	17	37	363	75	43	331	89	28	280	—	—	—	1268
LA	30	17	721	58	1	1	1	—	1	—	—	2	—	—	—	832
LMR	—	—	—	—	—	6	—	—	15	3	1	12	—	—	—	37
Math	—	—	—	1	2	10	5	1	4	5	3	5	—	—	—	36
School of The Arts																
AArt	—	1	1	4	3	36	2	1	26	5	—	18	—	—	—	97
Arts	—	—	—	1	—	7	3	1	9	4	1	12	—	—	—	38
School of Journalism																
Journ	—	—	—	6	5	72	9	6	55	8	5	43	—	—	—	209
Total	31	19	725	87	48	495	95	52	441	114	38	372	—	—	—	2517

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Army Ordnance District	\$ 1,500	Bibliography on engine low temperature problems	W. E. Meyer
National Science Foundation	154,100	Matching funds for construction of psychobiological laboratory	J. M. Warren
Sun Oil Company	4,000	Fellowship for graduate student in chemistry	Thomas Wartik
Atomic Energy Commission	48,136	Graphite research	P. L. Walker
ibid.	44,866	Element accumulation by maize	H. B. Palmer
Army Medical Research and Development Command	27,999	Responses of Peruvians to Climatic extremes	W. I. Thomas
Dept. of Health, Education, Welfare	62,809	Summer Institute for French and Spanish teachers	P. T. Baker
U.S. Dept. of Agriculture	4,965	Economics of agricultural production	Cortland Eyer
I.B.M. Corporation	7,500	Research to aid IBM Education Study Team	W. L. Barr
Army Ordnance District	15,000	Stratified Charge System	R. H. Alexander
National Science Foundation	14,400	Syntopogenic structures	C. R. Carpenter
ibid.	63,800	Electric field induced reaction at metal surfaces	A. W. Hussman
ibid.	13,700	Investigation of excitons in solids	W. J. Pervin
Dept. of Public Welfare	2,520	Institute for probation work with children	E. W. Mueller
Agency for International Development	varied	Foreign participant training program	H. A. Atwater
Dept. of Public Welfare	3,765	Institute for probation work with children	E. L. Keller
Office of Civil Defense	85,000	Ventilation of shelter space in existing structures	Wayne Bechdel
Public Health Service	500	Research on biosynthesis of ethionene of microorganisms	M. W. Isenberg
Penna. Dept. of Public Instruction	1,000	Research on firearms education	E. R. McLaughlin
Cooperative GLF	200	Research on buckwheat	M. F. Mallette
U.S.D.A. Forest Service	4,000	Revegetation on strip mine banks in Penna.	Frank Anthony
Public Health Service	12,535	Influence of mutant gene on riboflavin metabolism	H. D. Marshall,
Public Health Service	43,628	Training program in epidemiology	R. P. Pfeifer
National Science Foundation	23,800	Research in the azines	W. R. Byrnes,
ibid.	9,900	Research participation for College Teachers Program	R. J. Hutnik
ibid.	29,700	Research on organic anion aggregates	E. G. Buss,
Air Force Systems Command	24,988	Infrared multiple beam interferometry	R. V. Boucher
Chemstrand Research Center, Inc.	3,000	High polymer research	D. E. Davis
HEW Office of Education	26,000	Four fellowships in the education of mentally retarded	Lionel Goodman
E. I. duPont de Nemours	1,000	Study of attitude formations and change	M. J. Montjar
National Science Foundation	14,430	Research participation for College Teachers Program	Harry Zook
U.S. Army Ordnance	30,000	Research on multi-fuel operation with vortex combustion	T. K. McCubbin
Public Health Service	11,463	Carcinogenic properties of heat processed foods	J. A. Sauer
National Science Foundation	11,400	Acquisition of an electron spin resonance spectrometer	F. A. Miller
Shell Oil Co.	12,000	Acquisition of a mounted seismic unit	L. P. Guest
			W. M. Lepley
			A. W. Hussman
			Mary L. Dodds
			H. B. Palmer
			B. F. Howell, Jr.

faculty BULLETIN

Vol. 49, No. 39 April 27, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

CALENDAR

Friday, May 4

Center Stage production of Shaw's "The Man of Destiny" and Beckett's "Krapp's Last Tape," 8 p.m.

NDEA French Institute lecture, 7:30 p.m., Home Economics Living Center; Dr. Norman Spector, University of Chicago, on "Aspects of Moliere's Comedy: L'Etourdi, and L'Ecole des Femmes." Lecture in English.

Biophysics Seminar, 1 p.m., Room 300 Walker, Dr. Andrzej Kozinski, The Johns Hopkins University biophysics department, on "The Mode of Replication of Phage DNA."

Saturday, May 5

Varsity golf, vs. Navy, 1:30 p.m.; baseball, vs. Navy, 2 p.m.; track, vs. Michigan State, 2 p.m.

Penn State Singers concert, 8 p.m., HUB ball room. Vocal and instrumental music conducted by Raymond Brown.

Tennis clinic, 2 p.m., varsity courts, with Mrs. Margaret Osborne DuPont, Belmar Gunderson, Mrs. F. A. C. Vosler, and Margaret Varner. White Building in case of rain.

Sunday, May 6

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel, Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. A. Marshall Laverty, chaplain, Queens University, Toronto, Canada, on "Modern Cliches."

Monday May 7

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Edgar B. Hale, professor of animal behavior, on "Animals Have Social Problems, Too."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. A. Wilkov, on "Mechanisms of Plastic Deformation and Hardening."

(Continued on page three)

Construction

An addition to Pond Laboratory, to be financed by a \$31,000 grant by the National Science Foundation, will provide increased facilities for the Cryogenic Laboratory, housing a 3,000 kilowatt motor-generator which was donated by the U.S. Steel Corporation. It will make possible expansion of research by Dr. J. G. Aston, head of the laboratory, and Dr. J. J. Fritz. The research is concerned with nuclear cooling experiments, and on super-conducting magnets.

Preliminary plans for the extension of the main unit of Recreation Building call for an increase in the length of the present building westward by 90 feet, and make possible expansion of the seating capacity from 5,500 to 9,000. In addition, the gymnasium floor will be enlarged, and lighting, heating, ventilating, and acoustical conditions improved. The General State Authority has allocated \$1,300,000 for the project.

A small Animal Building, to be used primarily by the departments of psychology and zoology for research in animal behavior, will be constructed north of the Research Center, at an estimated cost of \$308,200, half of which is to be given by the National Science Foundation.

Radio series

A new radio series featuring faculty members in brief statements about key problems in college-going has been initiated on more than 20 stations in Pennsylvania. Called "Check List for the College-Bound," the series is designed to help high school students and their parents in such problems as admission standards, costs, study habits to prepare for college, jobs for college graduates, etc. The program is heard on WMAJ at 12:20 p.m. and 5:40 p.m.

Tennis clinic

Mrs. Margaret Osborne DuPont, Margaret Varner, Mrs. F. A. C. Voslers, Jr., and Belmar Gunderson, four of the outstanding women tennis players in the country, will conduct a clinic Saturday, May 5, at the Varsity Courts east of the Ice Pavilion, beginning at 2 p.m.

The clinic, sponsored by Women's Recreation Association, will be held in White Building in case of rain.

Mrs. DuPont has been for many years a leading figure in women's tennis in this country, and has won many national titles, and has been a member of the U. S. Wightman Cup team since 1946.

WUS contest

The annual Professor Snarf contest sponsored by World University Service as a fund-raising campaign will be held May 7 to 11, with voting booths on the Mall and the ground floor of the HUB.

Although essentially a student activity, the faculty is invited to aid WUS by this method or by making contributions directly through the Office of the Chaplain.

One faculty member from each of the Colleges and from DOC will be placed in nomination by student councils. A vote may be cast for the voter's choice by adding a penny to the appropriate container; as many votes may be cast by an individual as desired. The winning faculty member will be recognized at the annual International Folk Festival Saturday, May 12, at 2 p.m. in the HUB and gifts contributed by State College merchants will be given to the winner.

World University Service is an organization of student groups with the basic purpose of aiding students in foreign countries, through contributions to construct dormitories, health centers, libraries, or other facilities; through scholarships; and through such methods as providing a tutorial service for non-white students in African countries.

Last year over \$300 was raised locally through the Professor Snarf contest.

Economics

The second portion of the Contemporary Economic Issues Lecture Series, sponsored by the College of Business Administration for the entire University community, will be held Monday, May 7, at 8 p.m. in the HUB assembly room.

Moderator for the program, which is on the theme, "The Economics of Kennedy: International Aspects" will be Dr. Monroe Newman. Speakers will be Drs. Marvin E. Rozen, on "Aid and the Balance of Payments;" Vaclav E. Mares, on "Trade Policy and the Common Market;" and Jan S. Prybyla, on "Competitive Coexistence and Soviet Growth."

Gulf award

Charles A. Norris, instructor in general engineering at the McKeesport Campus has been awarded a \$2,500 grant under the Faculty Salary Supplementation section of the Gulf Aid to Education Program of the Gulf Oil Corporation. He will undergo a two-month assignment with the Automotive Division of Gulf Research and Development Co. in work involving a study of lubricating oil viscosity.

Personnel matters

Andrew W. Case will retire July 1 as professor emeritus of art after teaching painting at the University for 36 years and an overall teaching career of 39 years. Case studied at the School of Fine and Applied Art of Pratt Institute from 1919 to 1923 and began his teaching as supervisor of art education in the St. Clair, Pa., public school. He taught at Shippensburg State College, was a reporter for the Pottsville Journal, and did commercial art before joining the faculty in 1923. He received a bachelor of science degree in 1928 and master of arts in 1930 from Penn State. In addition to teaching thousands of students both in the regular year and in summer sessions, he was responsible for much art work in University publications and served as art adviser to *La Vie* from 1927. He plans to make his home in York and serve as dean of the York Academy of Arts.



David A. Campbell, who retired as associate professor of engineering drawing in 1959 after nearly 40 years of teaching at Penn State, died April 20 at the age of 68.

Officers elected

Two local organizations have announced results of the election of officers for the coming year.

The Penn State chapter of the American Association of University Professors has elected Dr. William G. Mather, head of the department of sociology and anthropology, to succeed Dr. John R. Ferguson, director of the Institute of Public Safety, for a two-year term.

Other officers are: Harriett D. Nesbitt, vice president; Dr. Edward G. Buss, secretary. Four faculty members will be elected to the executive committee from among the following: Dr. Will E. Mason, Kenneth V. Manning, Dr. Lyman C. Hunt, Jr., Warren S. Smith, Dr. William M. Hench, and Robert E. Galbraith.

The Society of Sigma Xi Penn State chapter has elected Dr. John C. Griffiths, head of the department of mineralogy, as president to succeed Paul Ebaugh, assistant dean for research in the College of Engineering and Architecture.

Other officers: Dr. James W. Wright, vice president; Dr. A. J. G. Maw, secretary, Dr. Ruth L. Pike, treasurer.

Printing needs at Office Services

A NEW booklet will be available soon to explain the many printing, addressing, and mailing services the Office Services Division is in a position to provide to University departments and offices.

Recent addition of a Linotype machine and operator has made the Division self-sufficient in offset printing service by making available many type faces which were formerly available only at the shops of commercial letterpress printers. Having the machine here speeds up the printing service.

A complete printing job, including binding, folding, addressing, sorting, and mailing, is now at the disposal of the faculty and staff for everything from 3 by 5 cards to giant-size 20 by 26 inch multipage books. Modern, high speed equipment is used.

John W. Crump, supervisor of the Division, points out that the printing operation is so large that in the first 8½ months of this year a total of 3,800 jobs had been done and that the yearly paper bill alone is over \$100,000.

Offset printing — a name erroneously but popularly used to describe virtually every type of printing except letterpress — is a versatile process of reproducing many copies of very simple or very complicated black-and-white or color matter. Some of the bulletins or brochures printed at Office Services run into hundreds of thousands of copies, others less than a hundred. In addition to offset printing, the Division has complete mimeograph service, including typing of the stencil.

With the exception of creating the original idea, Crump and his staff are fully capable of carrying out the rest of the job, including makeup, selection of reproducing method, color selection, typing copy or setting in type, selecting headline type, and suggesting binding and folding methods. Only an interdepartmental transfer is necessary for most jobs (some printing jobs require a University Editor's approval).

Mailing services are provided for catalogues, bulletins, Alumni publications, Faculty Bulletin, and Continuing Education, with modern electronic addressing equipment providing a high-speed service. A variety of distribution lists for University faculty and staff members is also maintained.

Segments of the service are, of course, available also; for example, if a faculty member requires the binding of copies of a report or teaching unit, he can have it done quickly.

Crump points out that although outside purchase orders will be closed soon, interdepartmental transfers to the Division are acceptable to the close of the fiscal year.

NEWS IN BRIEF

► **CHAMPIONSHIPS:** Chess, bowling, and table tennis teams from Commonwealth Campuses take part in championship playoffs today (Friday) and tomorrow at University Park. Teams present are those which won sectional championships in competition throughout the year. In chess the teams represent Pottsville, Behrend, and York; in bowling, Altoona, Hazleton, and Ogontz; and in table tennis, York, Scranton, and Behrend.

► **CONTRIBUTIONS:** More than \$160,000 has been contributed to the 1962 Alumni Fund, J. E. Holtzinger, Fund chairman has announced. The summary lists contributions from 7,402 alumni. The campaign continues through June.

► **LANDSCAPE:** Jan Y. Byhouwer, distinguished landscape architect, will speak on "Design: Zuider Zee," tonight (Friday) in Room 10, Sparks, as a guest of the departments of landscape architecture and architecture. He is currently at M.I.T., and has spent many years in this country as student and teacher, although born in Amsterdam.

► **COMMENCEMENT:** About 2,550 students will receive degrees at Commencement Exercises Saturday, June 9, in Beaver Stadium at 10:30 a.m., weather permitting. The graduates will include 1,820 baccalaureate and 475 associate degree candidates.

► **WHITMAN:** Charles Feinburg, international known authority on Walt Whitman and foremost collector of Whitman manuscripts, letters, and documents, will visit the campus May 16, speaking before the English Colloquium at 7:30 p.m. in the Nittany Lion Inn. His subject will be "Whitman's Worksheets and Manuscripts."

► **GRANT:** A \$5,000 grant from the General Electric Foundation will aid a faculty member in the department of industrial engineering to work for a doctor of philosophy degree in the area of process engineering. The grant will permit the selected staff member to attend a university offering graduate work in the area and pay for instrumentation for his dissertation.



DuBois Campus



Hiller

Within the area served by the DuBois Campus, including most of Clearfield, Elk, and Jefferson counties, DuBois is the largest community in a 70-mile radius, although its population totals only 12,000.

Currently, a drive to raise \$600,000 for buildings is underway in the area and it is expected that a large share of the total will come from the surrounding communities, such as St. Marys, Clearfield and Brookville because the DuBois Campus truly performs an area service. There is no other college within 42 miles and the tri-county area DuBois serves is well isolated.

The early prosperity of the area depended on the development of coal and timber enterprises, in which the DuBois family was a leader. To the limited extent that both industries required labor, the area thrived for many years until coal reserves declined and timber stands were overcut. Still, today the area is economically reasonably well grounded, and small industries have found a good labor force on hand. In the town itself, the principal employers are a manufacturer of gas meters hiring 500-600 employees, railroad shops, a spring company, a rubber fabrication plant, a small electronics firm, a brewery, and a printing firm. Not far away is St. Marys, the leading carbon products manufacturing center in the United States, from which many students commute to the DuBois Campus.

The Campus has had a turbulent history, closing during war years 1944-46 but reopening and overflowing by 1947-48 when 390 students, many of them veterans, were registered.

The first Penn State activity in DuBois got underway in four rooms of a grade school building in 1935, with Edwin A. Zoller as administrative head. Zoller, who served the University in various capacities from 1927 to 1960, was head at DuBois until 1942. For the first year there were only 42 students and the faculty consisted

of four full-time and one part-time instructors. The library contained 437 volumes, most of them borrowed from the faculty.

But the enrollment climbed to 101 by 1937-38 and the heirs of John E. DuBois, Sr., gave his mansion with four acres of land in the heart of the city in perpetual lease to the center. The Works Progress Administration made extensive repairs to the mansion and with the enlarged facilities enrollment was increased to 150.

In the early years of the war there were new demands for services; a summer semester was added in 1942 to make an accelerated program available, and an EDT program of adult evening classes started. But as the war moved on, enrollments dropped and the center was closed in 1944.

The DuBois Educational Foundation was started by a group of citizens in 1944 as a non-profit organization and, with P. J. Swift as president, a successful fund drive was started in 1946 to obtain a wing for the science building and a field house for student union activities, both of which were built in 1947.

After the peak of enrollment was reached in 1947-48 there was a gradual reduction to pre-war levels and, until 1953 when Korean veterans returned, there was some doubt about the Center's future. In 1955 associate degree programs were started in engineering and today nearly half of the students are enrolled in the two-year curriculums.

About one-fourth of the students are DuBois residents; commuters travel as much as 40 miles to the Campus. But it is one of the most active student bodies among the Commonwealth Campuses, with a basketball team entered in the Penna. Junior College A.A.; a dramatics organization; Delta Mu Sigma honorary society; an intramural sport program; photography, engineering, chemistry, botany, and motor clubs, and coffee hours biweekly promoted by the Student Council.

One of the most illustrious of the DuBois alumni is Frank Smeal, son of a coal miner at nearby Sykesville, who worked his way through DuBois and Penn State, earned a master's degree at Harvard and a law degree at N.Y.U. and is now vice-president of Morgan Guaranty Bank in New York.

The faculty at DuBois is currently headed by Donald S. Hiller, who has been at the Campus since 1941, first as instructor and since 1951 as administrator. He is a 1938 graduate of Penn State, majoring in history and English, and earned the master's degree in political science in 1941.

Samuel A. King, assistant professor of history, has been a member of the DuBois faculty for 17 years and Harry E. Cowan, associate professor of mathematics, for 14 years. Of the present faculty three others have been at DuBois five years or more. Among the colleges and universities represented by the faculty are Dickinson, University of Pittsburgh, Southern Methodist, U. of Minnesota, Grove City, and Guilford (Surrey, England) Technical College. Part-time instructors in engineering subjects are sometimes obtained from the community.

The main building today on the campus is still the mansion, built in 1875, remodeled in 1902, and again in 1938. The Science Building was originally the stables, converted in 1938 and enlarged later by public subscription. The field house was built in 1947 with funds from the College book store. The cafeteria, a former residence, was purchased by the Foundation in 1948.

One of the outstanding community services aided by the DuBois Campus is the Area Arts Center, which was inspired by Edwin W. Zoller, now professor emeritus of art, who had launched a similar program in 1959 at Altoona. There are seven groups actively engaged in dramatics, choral singing, gardening, French and Russian, pastel painting, and foreign films. More than 200 participants are involved.

Calendar —

(Continued from page one)

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Friedrich Liebau, Max Planck Institute, Wurzburg, W. Germany, on "Structural Principles of Crystalline Phosphates."

Economics Lecture Series, "The Economics of Kennedy: International Aspects" 8 p.m., HUB Assembly Room. Speakers: Drs. Marvin E. Rozen, Vaclav E. Mares, and Jan S. Prybyla.

Tuesday, May 8

College of Home Economics faculty meeting, 3:55 p.m., Room 209 Home Economics South.

Faculty women's recreation, 2:30 p.m. and 7:30 p.m. White Building. Swimming, badminton, bowling.

Varsity golf, vs. Maryland, 1:30 p.m.; baseball, vs. Colgate, 3:30 p.m.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Dr. Allan Rodgers, professor of geography, on "Southern Italy: A Case Study of Government Subsidization of Industrial Development in an Underdeveloped Region."

Thursday, May 10

College of Business Administration faculty meeting, 3:55 p.m., Room 214 Boucke. International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. "Childhood of Maxim Gorki."

Chemistry Colloquium, 302 Whitmore, 12:40 p.m. Dr. Stuart Rice, University of Chicago.

Opening night of Player's production of "Once Upon a Mattress," 8 p.m., Schwab Auditorium.

Friday, May 11

Players production of "Once Upon a Mattress," 8 p.m. Schwab Auditorium.

NDEA French Institute lecture, 7:30 p.m.,

Home Economics Living Center. Dr. Vaclav Mares, professor of economics, on "France and the Common Market: Threat or Blessing for her Prosperity?" (In English.)

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Jack H. Wernick, Bell Telephone Laboratories, on "Metallurgical Aspects of High Field Superconducting Materials."

Television listings

WFBG-TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Folio 15 — daily programs, 9-9:15 a.m., from Sparks Building Studios, with faculty members of all Colleges featured.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Penna. Dept. of Public Instruction	\$ 12,900	Study of State library districts	J. H. Ferguson
Shell Chemical Co.	1,200	Mushroom insect control	R. J. Snetsinger
ibid.	1,000	Forage crop insect control	R. J. Snetsinger
National Science Foundation	31,000	Laboratory facilities for low temperature research	J. G. Aston and J. J. Fritz
NASA	150,000	Electron densities in the upper ionosphere	J. S. Nisbet
National Science Foundation	41,540	Institute in science and math	W. H. Powers
Rohm and Haas	1,300	Fruit diseases at Arendtsville	F. H. Lewis
Miller Chemical & Fertilizer Corp.	200	same	F. H. Lewis
U.S. Information Agency	2,300	Scientific films exhibition in London and The Hague	C. R. Carpenter
Penna. Dept. of Property and Supplies	39,300	Power plant survey	W. L. Muschlitz
ibid.	14,300	Fuels Advisor Service Project	W. L. Muschlitz
Penna. Dept. of Agriculture	35,000	Basic Soils Inventory	R. P. Matelski
Federal Housing Administration	20,800	Study of racking resistance of frame wall construction	M. W. Isenberg
U.S. Public Health Service	16,367	Effects of Irradiation on the immature mouse	D. J. Nash
ibid.	39,347	Isotope and element fractionation in disease	O. F. Tuttle
ibid.	8,510	Dietary and genetic factors in Adult Bone Structure	P. T. Baker
ibid.	3,450	Oxidative phosphorylation during cold adaptation	Adam Anthony
ibid.	33,000	Cellular synthesis	E. C. Pollard
LeTourneau-Westinghouse Co.	10,300	Development of proposal for earth-moving research	E. C. Shuman
Penna. Dept. of Public Instruction	772	Study on industrial education	C. J. Schaefer
National Science Foundation	45,500	Reactions of radicals generated by sodium flame method	H. P. Palmer and P. S. Skell
ibid.	33,500	Catalog of fossil spores and pollen	William Spackman
Atomic Energy Commission	29,336	Fission gas diffusion in graphite	W. S. Diethorn
Cabot Corp.	4,000	Surface oxygen groups on carbon black	P. L. Walker
Penna. Assoc. of Artificial Breeding Coops.	15,822	Research in dairy science	Peter Given
Automation Devices, Inc.	618	Gift of vibrator parts	J. O. Ahmquist
Ford Motor Co.	800	Cooperative Program in Metallurgy	M. S. Gjesdahl
Penna. Dept. of Agriculture	17,500	Large animal diagnostic service	R. W. Lindsay
ibid.	17,500	Poultry diagnostic laboratory	H. W. Dunne
ibid.	12,900	Oak Wilt research	Stephen Gordeuk
Socony Mobil Oil Co.	1,500	Catalog of fossil spores and pollen	C. L. Ferguson and R. J. Hutnik
National Pest Control Assoc.	\$ 200	Research on milipedes	William Spackman
Office of Naval Research	15,000	Energy level of polyatomic molecules	R. J. Snetsinger
Air Force Systems Command	25,454	Stratospheric objective analysis	D. H. Rank
Price Waterhouse Foundation	5,000	Develop a course in statistical techniques	R. T. Duquet
American Iron and Steel Institutes	2,200	Pay printing costs of a master's thesis	Ossian MacKenzie
Washington University of St. Louis	16,500	Study of efforts to place older workers in Pennsylvania	J. J. Schanz, Jr.
National Science Foundation	227,800	Construction of a new wing and radio astronomy lab- oratory	J. J. Kaufman
ibid.	26,100	Substituents in aromatic systems	A. H. Waynick
U.S. Public Health Service	4,500	Research symposium on the prefrontal association cortex	R. W. Taft, Jr.
ibid.	250	Predoctoral fellowship special allowance	J. M. Warren
Office of Aerospace Research	353,945	Properties and structures of crystals	D. E. Davis
Atomic Energy Commission	3,500	Purchase of equipment	Ray Pepinsky
ibid.	18,780	Studies of cobalt oxides	E. C. Pollard
			A. I. Muan

faculty BULLETIN

Vol. 49, No. 40

May 4, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

NEWS IN BRIEF

➤ **CANCELLATION:** The Graduate School lecture scheduled for May 11 by Dr. H. Richard Niebuhr has been cancelled, due to his illness.

➤ **WINNERS:** Aerospace engineering seniors Melvin R. Caldwell and Benjamin H. Dolbin won first prize in the undergraduate division of the Institute of the Aerospace Sciences' Middle Atlantic Student Paper Competition recently. They received a \$100 cash award, a certificate of recognition, and one-year memberships in the Institute for their paper titled, "Aerodynamics of the Flex Wing."

➤ **PARKING:** A recent note to the University from Elvyn Cordova, assistant director of the office of traffic director, University of Puerto Rico, notes that "traffic and parking have become a serious problem in our campus. We have put on action a regulation, but we still have some problems, specially in parking. We will appreciate very much if you could send us any information that you may be using in your campus and a copy of your regulation if you have so."

NOTE

Election of members of the University Board of Trustees by delegates of agricultural and industrial societies will be held June 6 and by alumni on June 8. University faculty and staff members are reminded that it is not in order to serve as a delegate or take part in political activity related to Board of Trustee elections.

Frizzell Contest

The annual John Henry Frizzell Ex-tempore Speaking Contest, probably the oldest speaking contest in the country, will get underway Monday, May 14, with the registration of entrants and selection of topics.

Elimination meetings will be held Tuesday, May 22, with each entrant speaking without notes for five minutes for preliminary and semifinal rounds. Six contestants will be chosen from the semifinal round for the finals on Monday, May 28, at 7:30 p.m. in Room 10 Sparks.

The contest honors the first head of the department of speech who retired in 1946 after 45 years of teaching and who is still living and working in State College.

Prizes are: \$50 and the John Henry Frizzell award of merit for first place; \$25 and the John Henry Frizzell award of merit for second place.

Clayton H. Schug, professor of speech, is chairman of the contest committee which also includes Kenneth Shoemaker, instructor in speech, and Akira Sanbonmatsu, graduate student in speech.

Pivot

The successful poetry publication, Pivot, yearly product of the Poetry Workshop, went on sale this week for the 12th consecutive year. The Workshop, conducted by Joseph L. Grucci, associate professor of English, is English 113, which enrolls both undergraduate and special students.

Pivot is probably the largest poetry magazine on university campuses, with a circulation of 2,000. Poems used are by students in the Workshop and from these are selected winners of the Samuel Barsky Memorial Award and the Anthony James Grucci Award of \$25, given annually. Kenneth Rosen and Georgia Lee McElhaney share this year's Barsky prize and Margaret Ann Lacy and Johanna Loehr share the Grucci Award.

Players show

The musical farce, "Once Upon a Mattress," which opened Thursday night at Schwab Auditorium, will continue tonight (Friday) and Saturday and will be given in Lewistown May 14.

Ellis Grove directs the show which is based on the fairy tale, "The Princess and the Pea."

Curtain time is 8 p.m.; tickets are available at the Hetzel Union Building desk and, just prior to the show, at Schwab.

Forum Saturday

Dr. Hans Hoffman, director of the Harvard University Project on Religion and Mental Health will speak at a University Christian Association sponsored forum Saturday, May 19, at 8 p.m. in Room 212, The Chapel. Faculty and students are invited.

Dr. Hoffman will speak on "Responsibility and Values" in an open session of a conference sponsored May 19 and 20 by the U.C.A. on "Human Issues in the Practice of Psychology" which will be attended by psychologists, counselors, and psychiatrists of the University staff and surrounding areas.

Those wishing further information about the Conference should contact Genevieve Dilts, associate director of the U.C.A., UN 5-7627.

Exhibition

The annual exhibition of student art, sponsored by the School of the Arts, is now in progress. Exhibits are located in the Hetzel Union Building, Temporary Classroom Bldg., and the home art area of the Home Economics Bldg.

On display are paintings, prints, drawings, sculpture, crafts, and other work accomplished this year by students in the departments of art, art education, and the division of home art.

Festival

An International Festival, featuring outstanding dance groups on campus, will be held Saturday at 1:30 p.m. in the Hetzel Union Building ball room, sponsored by World University Service.

Also part of the event is the presentation of the "Professor Snarf" Award.

The Hillel LaMachol dance group, the Schuplattlers, and Interlandia will participate and the Cosmopolitan Club will provide talent and entertainment.

Radio astronomy

The Board of Trustees has authorized construction of a radio-astronomy building, to be built and equipped with the aid of a grant of \$227,800 from the National Science Foundation.

The initial principal research instrument will be a 30-foot radio telescope, and it is nearing completion. It will be used to learn how changes in the sun affect the ionosphere.

Included in the building will be a recording room, shop, offices for five, office-laboratories for 12 students, seminar-library room, dark room, and storage. The structure will be built northwest of the main campus.

Senate Minutes

Meeting of May 1, 1962

The University Senate met at 3:55 p.m. on Tuesday, May 1, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 3 meeting were approved as printed in the Faculty Bulletin for April 13, 1962. One hundred twenty-two senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. B. Charnbury (H. L. Lovell), Hummel Fishburn (Francis Andrews), M. S. Gjesdahl (E. E. Ambrosius), E. P. Hexner (J. A. Hirsch), M. W. Humphrey (E. B. Hale), K. W. Hylbert (A. M. Wellington), B. B. Lethbridge (R. S. Stout), A. O. Lewis (H. J. Goltz), Ossian MacKenzie (W. M. Hench), R. C. Miller (R. L. Cowan), N. J. Palladino (D. E. Kline), E. B. Richie (W. R. Geelan), O. A. Schmidt (R. A. Bartoo), R. E. Smith (R. J. Clancey), and W. S. Smith (Stanley Weintraub).

A letter was read from Ben Euwema that E. H. Freund would replace R. D. Ayoub as a senator for the College of the Liberal Arts for the Spring Term, 1962.

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1962-1965 were read by the secretary as follows:

AGRICULTURE: J. R. Bloom, W. L. Kjelgaard, J. J. Reid, H. M. Southworth.

BUSINESS ADMINISTRATION: F. H. Cook, J. J. Kaufman, A. H. Recde, To be elected.

CHEMISTRY AND PHYSICS: A. W. Hutchison, Joseph Jordan, E. C. Pollard, D. H. Rank.

EDUCATION: W. P. Campbell, G. R. Hudson, C. J. Schaefer, B. E. Voss.

ENGINEERING AND ARCHITECTURE: J. W. Decker, B. W. McCormick, Jr., J. R. Mentzer, Carl Volz.

HOME ECONOMICS: Rose Cologne, J. E. Montgomery, Gilma Olson, L. Jeanne Riebel, Ruth L. Godfrey to replace J. H. Britton 1962-1964.

LIBERAL ARTS: E. H. Freund, Orrin Frink, H. J. Goltz, Margaret B. Matson.

MINERAL INDUSTRIES: E. J. Burcik, L. H. Lattman, Guy Rindone, J. J. Schanz.

PHYSICAL EDUCATION AND ATHLETICS: Della Durant, Barbara J. Hoepner, J. J. O'Hara, W. R. Spieth.

GRADUATE SCHOOL: C. E. Brandow, J. H. Britton, G. M. Torkelson, R. H. Waters.

These senators will be introduced at the first meeting of the Senate for the next academic year.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals listed under Items I A and I B. The motion was seconded and passed. Mr. Shelley commented briefly on Item II which listed proposals not recommended by the Committee. The complete report is on file in the office of the secretary.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "B." This report con-

tained changes in several rules of the Senate Policies and Rules for Undergraduate Students. Mr. Whisler moved to change Rule X-9 to read as follows:

X-9 A student shall not represent the University in any intercollegiate athletic contest if, at the beginning of a term, he is deficient by more than 10 credits from normal progress. Normal progress is defined for this purpose as consisting of 11 credits earned for each term of residence.

The motion was seconded and passed.

Mr. Whisler moved adoption of the proposed revision of Rule P-17 as follows:

P-17. At the end of the first five weeks of each term each student whose grade is below passing at that time shall be so notified by his instructor. The instructor shall also report to the Student's Dean or the director of his Commonwealth Campus the name and grade of each student who is failing.

The motion was seconded and passed.

Mr. Whisler then moved to add the following sentence to Rule L-4:

“, but such authorization may not be granted for the purpose of acquiring credit for a course previously failed.”

The motion was seconded and passed. Rule L-4 now reads:

L-4 Credit by examination may be granted to students who meet the requirements of the courses taken, and, after entrance requirements have been met, such credits shall be accepted for a degree. Work for which this credit is given must be in courses accepted by the University. Credits earned by examination may be granted only where the student makes a grade in the examination of C or higher. A fee of five dollars for each credit shall be charged for such examinations under certain circumstances. (See “Grades” and “Tuition and Charges.”) Permission to acquire credit in this manner shall be by authorization of the student's dean and of the head of the department in which the course is taught, but such authorization may not be granted for the purpose of acquiring credit for a course previously failed.

Mr. Whisler commented that suggested changes in Rule P-12 were not being recommended for action by the Senate. The complete report is on file in the office of the secretary.

UNFINISHED BUSINESS

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, asked that the report of the Committee which had been presented at the April 3 meeting be removed from the table. He moved adoption of the changes in the By-Laws in Article II, Section 1-0 and Section 1-0-3. The motion was seconded. Mr. Whisler moved that section 1-0-3 be amended as proposed in Item I, Amendment to By-Law Amendment, of Appendix “C” which had been distributed with the agenda. The proposal is as follows:

A. Voting members, the chairman to be selected from among the voting membership on the Senate Committee on Student Affairs, the Dean of the College (or his representative) in which the student is enrolled . . . (the remainder unchanged).

Mr. Josephson agreed to the amendment and the motion was seconded and passed. The question on the main motion as amended was passed by a two-thirds vote. The By-Laws, as revised, now read:

Article II, Section 1-0. Student Affairs, seven faculty members of the Senate and ex-officio, non-voting, the Special Assist-

ant to the President for Student Affairs, the chairman of the Graduate School Committee on Student Affairs, the President of Undergraduate Student Government and the President of the Association of Women Students.

Article II, Section 1-0-3, Discipline

A. Voting Members, the chairman to be selected from among the voting membership on the Senate Committee on Student Affairs, the Dean of the College (or his representative) in which the student is enrolled, the President of AWS and/or SGA depending upon the sex of the student(s) and a faculty or staff specialist on behavior, as designated by the Committee on Student Affairs.

Mr. Whisler then presented Item II, Rules Changes to Implement By-Law Changes, of Appendix “C” and moved adoption of the proposals in II A, to delete the first paragraph of Rule Y-11; II B, to change Rule W-13; and II C, to change Rule Y-14. The motion was seconded. There was considerable discussion on Item II C by Messrs Schrader, Josephson, Kaufman, Lattman, Whisler, McKinley, and Dennis Foianini. Mr. Schrader moved that Item II C be amended to read as follows:

Use of University facilities by student organizations is restricted by the University to those that have been granted recognition in accordance with policies approved by the Senate or are sponsored by a department or College of the University.

The motion was seconded. In the discussion of Item II C Miss Ruth Ayres moved that the proposal and the amendment be referred back to the Senate Committee on Rules. The motion was seconded and passed. It was suggested by Mr. Lattman that “the University name and facilities” be included in the consideration by the Rules Committee. Items IIA and IIB were passed. The changed rules are as follows:

Y-11. No petitioning organization with restrictive membership clauses regarding race, religion, or creed shall be granted a charter provided that special consideration will be given to the merits of bona fide religious groups not founded for the purpose of religious discrimination. After June 30, 1965, any social organization which has restrictive clauses still unre-moved shall be required to become inactive until the restrictive qualifications for membership are eliminated.

W-13. Student organizations shall be held responsible for the good conduct of all persons at all University related functions, and for conformance to the laws of the Municipality, Commonwealth, and Nation. Any individual or organization whose conduct is found to be prejudicial to the good name of the University will be subject to disciplinary action. Such action may include suspension or expulsion of individuals, or the suspension or revocation of the charters of organizations.

The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker announced that he will make a report to the faculty or the Senate before the end of the school year.

Chairmen of the Senate Committees are reminded that annual reports IN DUPLICATE will be due at the June 5 meeting.

The next regular meeting of the University Senate will be on June 5, 1962; the agenda will be distributed on May 22, 1962.

The meeting adjourned at 4:37 p.m.

Robert G. Bernreuter
Secretary

Items of Interest

ARTICLES AND PAPERS

- PANOFSKY, H. A., meteorology, a paper on "Scale Analysis of Atmospheric Turbulence at 2m," in the January issue of the Royal Meteorological Society Quarterly Journal (selected for reading and discussion at March meeting of the Society).
- a paper, "Eddy Conductivity in a Subsidence Inversion," in the December issue of the Journal of Meteorology.
- two articles on "Thermo-Variance Spectra" with Dr. Franz Halberg in the December issue of Experimental Medicine and Surgery.
- articles on "Atmospheric Turbulence" and "Stratosphere" in the 1962 McGraw-Hill Yearbook of Science and Technology.
- PROUT, J. H., Ordnance Lab., a paper, "A Successful Reslitter for Magnetic Tape" at the Ninth Annual Spring Convention of the Audio Engineering Society in Los Angeles.
- PRYBYLA, J. S., economics, an article on "How Statistics are Made" in the January-February issue of the journal, Problems of Communism, Washington, D.C.
- "Statistical Note" in the December issue of The South African Journal of Economics.
- "Private Enterprise in Poland under Gomulka" in the March issue of The Slavic Review.
- READ, H. J., metallurgy, four sections of the second edition of the "Electroplating Engineering Handbook" published by Reinhold Publishing Co.
- ROWLANDS, R. O., engineering research, a paper before the professional group meeting on Information Theory at the International Convention of the Institute of Radio Engineers, on "The Relative Efficiencies of Various Binary Detection Systems."
- an article in the April issue of Electronic Technology, on "Low Q Band Pass Filters."
- ROZEN, MARVIN, economics, an article in the March issue of the American Economic Review, on "Credit Controls and Financial Intermediaries: Comment."
- RUBIN, J. J., American literature, an article on Hawthorne's theology in the winter issue of the Emerson Society Quarterly.
- SCHANZ, J. J., Jr., mineral economics, with Werner, B. T., a paper on graphite consumption before the Industrial Minerals Division of the Society of Mining Engineers.
- SILVA, RUTH, political science, a paper, "The Legal Aspects of Reapportionment" before the annual meeting, Pennsylvania Political Science Association; also to be reprinted in the April issue of the Fordham Law Review.
- SNOWDON, J. C., Ordnance Research Lab., an article on "Isolation from Vibration with a Mounting Utilizing Low- and High-Damping Rubber-like Materials," in the January issue of the Journal of the Acoustical Society of America.
- STAMBAUGH, W. J., forest pathology, with F. W. Cobb, R. A. Schmidt, and F. C. Krieger, "Seasonal Inoculum Dispersal and White Pine Stump Invasion by *Fomes annosus*" in the March 15 issue of The Plant Disease Reporter.
- SUSSMAN, M. R., finance, an article, "The Return to Reason" in the March 29 issue of the Commercial and Financial Chronicle.

PERSONNEL MATTERS

Francis Doan, professor of dairy manufacturing, will retire July 1, completing 37 years on the faculty teaching and research. He received both bachelor and master's degrees from Penn State and before joining the faculty was chemist for Ntle's Food Products Co., taught at the University of Maryland, and was civil service examiner for Baltimore. His teaching, he handled courses in many phases of the dairy industry and supervised the doctoral programs of 30 candidates. Among his honors were the Borden Award in dairy manufacturing of the American Dairy Science Association in 1949 and a Citic of Merit from the Poor Richard Club in 1950. The 1962 Penn State Dairy Exposition was dedicated to him.

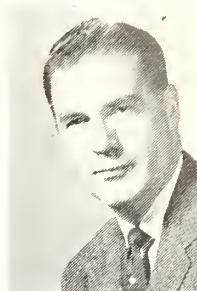


Dr. Arthur E. Woodward, associate professor of physics, has been awarded a Guggenheim Fellowship for the next academic year. He is among 270 scholars, scientists, and artists to receive awards for the 1962-63 academic year. He plans to spend the year in England Queen Mary College, University of London, in research studies on the dynamic property of high polymer crystals.

R. Blaise Schlosser, former assistant county agent in Warren County and most recently office manager for the Crawford County Agricultural Stabilization Commission Committee, has been appointed Rural Areas Development agent for the counties of Erie, Crawford, Venango, Butler, Beaver, Lawrence and Mercer. He will be on the Agricultural Extension staff.

Dr. Rah W. Condee, professor of English literature, will be on leave from July 1 to June 30, 1963, to do research in England and Scotland on the English poet, John Milton, and to observe programs in liberal studies for adults in both countries. Dr. Condee is associate director for humanities and fine arts of the Center for Continuing Liberal Education.

Dr. Eugene T. McDonald, professor of speech and speech education, has been named Liberal Arts Research Scholar for the Spring Term, enabling him to devote more time to research activity. He plans to complete a text dealing with articulation testing and treatment; the text and test will be published by Stanwix House, of Pittsburgh. Director of the Speech and Hearing Clinic since 1946, Dr. McDonald came to Penn State in 1938 as graduate assistant. He is a graduate of California (Pa.) State College and obtained master of arts and doctor of education degrees at Penn State.



Dr. Jerome K. Pasto, professor of farm management, has been named to succeed Dr. Paul M. Althouse July 1 as associate director of resident education in the College of Agriculture. Dr. Althouse is now director of general education. Dr. Pasto joined the faculty in 1950 but from 1957 to 1959 served as consultant on the economics of farm production with the Food and Agriculture Organization of the U.N. He is a Cornell University graduate, received advanced degrees there, and was extension specialist in farm labor before coming to Penn State. He was also a soil technologist with the Soil Conservation Service.

Ralph Humes, instructor in engineering at the York Campus, is on leave for the Spring Term traveling in Western Europe.

Dr. Arthur S. Hurrell, who served on the faculty from 1922 until his retirement in 1946 as professor emeritus of vocational teacher education, died May 6 at the age of 82. From 1922 to 1924 he served as assistant dean of the Summer Sessions and Teacher Training Extension as well as professor of vocational education and was then named director of the department of teacher training extension and vocational teacher training, the position he held until his retirement.

Senate Minutes

Meeting of May 1, 1962

The University Senate met at 3:55 p.m. on Tuesday, May 1, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 3 meeting were approved as printed in the Faculty Bulletin for April 13, 1962. One hundred twenty-two senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. B. Charnbury (H. L. Lovell), Hummel Fishburn (Francis Andrews), M. S. Gjesdahl (E. E. Ambrosius), E. P. Hexner (J. A. Hirsch), M. W. Humphrey (E. B. Hale), K. W. Hylbert (A. M. Wellington), B. B. Lethbridge (R. S. Stout), A. O. Lewis (H. J. Goltz), Ossian MacKenzie (W. M. Hench), R. C. Miller (R. L. Cowan), N. J. Palladino (D. E. Kline), E. B. Richie (W. R. Geelan), O. A. Schmidt (R. A. Bartoo), R. E. Smith (R. J. Clancey), and W. S. Smith (Stanley Weintraub).

A letter was read from Ben Euwema that E. H. Freund would replace R. D. Ayoub as a senator for the College of the Liberal Arts for the Spring Term, 1962.

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1962-1965 were read by the secretary as follows:

AGRICULTURE: J. R. Bloom, W. L. Kjølgaard, J. J. Reid, H. M. Southworth.

BUSINESS ADMINISTRATION: F. H. Cook, J. J. Kaufman, A. H. Reede, To be elected.

CHEMISTRY AND PHYSICS: A. W. Hutchison, Joseph Jordan, E. C. Pollard, D. H. Rank.

EDUCATION: W. P. Campbell, G. R. Hudson, C. J. Schaefer, B. E. Voss.

ENGINEERING AND ARCHITECTURE: J. W. Decker, B. W. McCormick, Jr., J. R. Mentzer, Carl Volz.

HOME ECONOMICS: Rose Cologne, J. E. Montgomery, Gilma Olson, L. Jeanne Riebel, Ruth L. Godfrey to replace J. H. Britton 1962-1964.

LIBERAL ARTS: E. H. Freund, Orrin Frink, H. J. Goltz, Margaret B. Matson.

MINERAL INDUSTRIES: E. J. Burcik, L. H. Lattman, Guy Rindone, J. J. Schanz.

PHYSICAL EDUCATION AND ATHLETICS: Della Durant, Barbara J. Hoepner, J. J. O'Hara, W. R. Spieth.

GRADUATE SCHOOL: G. E. Brandow, J. H. Britton, G. M. Torkelson, R. H. Waters.

These senators will be introduced at the first meeting of the Senate for the next academic year.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals listed under Items I A and I B. The motion was seconded and passed. Mr. Shelley commented briefly on Item II which listed proposals not recommended by the Committee. The complete report is on file in the office of the secretary.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "B." This report con-

tained changes in several rules of the Senate Policies and Rules for Undergraduate Students. Mr. Whisler moved to change Rule X-9 to read as follows:

X-9 A student shall not represent the University in any intercollegiate athletic contest if, at the beginning of a term, he is deficient by more than 10 credits from normal progress. Normal progress is defined for this purpose as consisting of 11 credits earned for each term of residence.

The motion was seconded and passed.

Mr. Whisler moved adoption of the proposed revision of Rule P-17 as follows:

P-17. At the end of the first five weeks of each term each student whose grade is below passing at that time shall be so notified by his instructor. The instructor shall also report to the Student's Dean or the director of his Commonwealth Campus the name and grade of each student who is failing.

The motion was seconded and passed.

Mr. Whisler then moved to add the following sentence to Rule L-4:

"... but such authorization may not be granted for the purpose of acquiring credit for a course previously failed."

The motion was seconded and passed. Rule L-4 now reads:

L-4 Credit by examination may be granted to students who meet the requirements of the courses taken, and, after entrance requirements have been met, such credits shall be accepted for a degree. Work for which this credit is given must be in courses accepted by the University. Credits earned by examination may be granted only where the student makes a grade in the examination of C or higher. A fee of five dollars for each credit shall be charged for such examinations under certain circumstances. (See "Grades" and "Tuition and Charges.") Permission to acquire credit in this manner shall be by authorization of the student's dean and of the head of the department in which the course is taught, but such authorization may not be granted for the purpose of acquiring credit for a course previously failed.

Mr. Whisler commented that suggested changes in Rule P-12 were not being recommended for action by the Senate. The complete report is on file in the office of the secretary.

UNFINISHED BUSINESS

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, asked that the report of the Committee which had been presented at the April 3 meeting be removed from the table. He moved adoption of the changes in the By-Laws in Article II, Section 1-0 and Section 1-0-3. The motion was seconded. Mr. Whisler moved that section 1-0-3 be amended as proposed in Item I, Amendment to By-Law Amendment, of Appendix "C" which had been distributed with the agenda. The proposal is as follows:

A. Voting members, the chairman to be selected from among the voting membership on the Senate Committee on Student Affairs, the Dean of the College (or his representative) in which the student is enrolled . . . (the remainder unchanged).

Mr. Josephson agreed to the amendment and the motion was seconded and passed. The question on the main motion as amended was passed by a two-thirds vote. The By-Laws, as revised, now read:

Article II, Section 1-0. Student Affairs, seven faculty members of the Senate and ex-officio, non-voting, the Special Assist-

ant to the President for Student Affairs, the chairman of the Graduate School Committee on Student Affairs, the President of Undergraduate Student Government and the President of the Association of Women Students.

Article II, Section 1-0-3, Discipline

A. Voting Members, the chairman to be selected from among the voting membership on the Senate Committee on Student Affairs, the Dean of the College (or his representative) in which the student is enrolled, the President of AWS and/or SGA depending upon the sex of the student(s) and a faculty or staff specialist on behavior, as designated by the Committee on Student Affairs.

Mr. Whisler then presented Item II, Rules Changes to Implement By-Law Changes, of Appendix "C" and moved adoption of the proposals in II A, to delete the first paragraph of Rule Y-11; II B, to change Rule W-13; and II C, to change Rule Y-14. The motion was seconded. There was considerable discussion on Item II C by Messrs. Schrader, Josephson, Kaufman, Lattman, Whisler, McKinley, and Dennis Foianini. Mr. Schrader moved that Item II C be amended to read as follows:

Use of University facilities by student organizations is restricted by the University to those that have been granted recognition in accordance with policies approved by the Senate or are sponsored by a department or College of the University.

The motion was seconded. In the discussion of Item II C Miss Ruth Ayres moved that the proposal and the amendment be referred back to the Senate Committee on Rules. The motion was seconded and passed. It was suggested by Mr. Lattman that "the University name and facilities" be included in the consideration by the Rules Committee. Items IIA and IIB were passed. The changed rules are as follows:

Y-11. No petitioning organization with restrictive membership clauses regarding race, religion, or creed shall be granted a charter provided that special consideration will be given to the merits of bona fide religious groups not founded for the purpose of religious discrimination. After June 30, 1965, any social organization which has restrictive clauses still unreformed shall be required to become inactive until the restrictive qualifications for membership are eliminated.

W-13. Student organizations shall be held responsible for the good conduct of all persons at all University related functions, and for conformance to the laws of the Municipality, Commonwealth, and Nation. Any individual or organization whose conduct is found to be prejudicial to the good name of the University will be subject to disciplinary action. Such action may include suspension or expulsion of individuals, or the suspension or revocation of the charters of organizations.

The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker announced that he will make a report to the faculty or the Senate before the end of the school year.

Chairmen of the Senate Committees are reminded that annual reports IN DUPLICATE will be due at the June 5 meeting.

The next regular meeting of the University Senate will be on June 5, 1962; the agenda will be distributed on May 22, 1962. The meeting adjourned at 4:37 p.m.

Robert G. Bernreuter
Secretary

The New Student in the Old College

The article below is reprinted, with the permission of the editor, from the March 24 issue of "School and Society." Dr. Eddy is author of "Colleges for our Land and Time," an account of the development of Land-Grant Colleges in America, published by Harper Brothers.

By EDWARD D. EDDY, JR.,
President, Chatham College, Pittsburgh, Pa.

THE advertising campaign in behalf of American colleges has posed the question: When he's ready for college, will college be ready for him? The question is directed to an enrollment crisis five to 10 years from now. A rephrased query is more important today: "When he has entered college, is college ready for him?" Unfortunately, there is only one realistic answer. It is a flat, honest, and perhaps cruel "No." The great majority of American colleges and universities are not ready for the kind and quality of student who is now knocking at the campus gate.

In the past two to three years, the students have changed faster than the colleges. During the '50's we could accuse the students of being lethargic and apathetic. The accusation then was a just one. Today it is a far more telling accusation of the colleges themselves.

Most colleges are not prepared for the new student. Far too many faculty members and administrators cling to tradition and ignore the rapidly rising level and the substantial changed attitude of American youth. Our colleges are in grave danger of short-changing both the students and the society they serve.

Vested interests on every campus prevent recognition of the obvious. Established customs, longstanding departmental and administrative structure, and sentimentalized traditions protected by alumni keep the colleges from responding with vigor and enthusiasm to the vigor and enthusiasm of the new students. The interest of the youngster who is ready for something new in the way of learning is quickly damped by the self-oriented faculty member who sees a threat to change and resists it out of apprehension.

The so-called college admissions crisis has done a beautiful job of scaring American youth, on our readiness to prepare for a flood of youngsters beginning in 1964, we have succeeded in changing the attitude of the youngster of today. These students have a far greater appreciation of and regard for higher learning. The changed attitude has resulted in their readiness to be challenged deeply and consistently.

Many colleges have found that they must write ahead to ask visiting lecturers not to popularize their presentations, not to talk down and thus to underestimate their audiences. These are students who are willing to reach for the stars, even though they cannot yet understand the universe.

The failure of the colleges to respond to the new student has an amusing as well as disturbing aspect. For generations, college faculties have said that this is what they want. They have pleaded for vital, alive, and ardent young people to populate the

campuses. Now they are here — but apparently the colleges do not know what to do with them. The time of fulfillment of faculty dreams has arrived, but faculty members are not ready to wake up. The alleged apathy seems to have boomeranged.

What is reported here is not true of every student, of course, just as it is not fair to label all college students as either liberal or conservative. But even if it be true of a minority, that minority is so fast growing as to become soon the dominant and vociferously dissatisfied group. Tomorrow's student is here today, but he is enrolled in yesterday's college.

What are the possible courses of action and reaction? How should the American college or university respond to the new student?

First, there are obvious courses of action which should not be taken. When faced with a sudden shift in the middle of the game, the temptation is great to recall the cards and reshuffle. In other words, the temptation is great just to shift the present program into higher gear and to make standards more rigid.

The new student already has been caught by some of these excesses. Witness the heavy reliance on — and thus preoccupation with — College Board scores. On one campus recently, until the situation could be rescued, freshmen week almost turned into a hysterical comparison among the freshmen students of individual scores which now are made known to each student by the College Board.

But students are not just score-happy before college. The near hysteria continues through the undergraduate years as each marking period looms and passes. An increasing number of students look forward to applying to "a good graduate school" and are conscious of their record as never before. More and more, undergraduate education is viewed as a necessary, almost evil stepping-stone toward the "real" process of education at the graduate level.

Assignments increased

The typical response of the colleges is exactly what it should not be. Few faculty members make a sincere effort to change the content and method of the course to meet the new level. Few take a hard look at the total curricular offerings. Instead, longer assignments are handed out and the same curve in the grade scale is maintained. When the president announces at the opening faculty meeting that "this is the best class ever to enter college," 500 pages of required reading are added almost automatically to each week's assignments.

Many college officials respond, too, by becoming more and more intolerant of individual deviation. We seem to have swallowed our own propaganda aimed at the

mid-'60's. Some deans, for instance, honestly believe that they can hold students to a trouble-less conformity by mentioning the growing lines in front of the admissions office and cautioning the nonconformist that 10 others are out there prepared to take his place. In the process, of course, the dean probably has killed whatever spark of creativity led the student away from the mass and to the dean's attention.

Individual creativity

THIS growing internal crisis in higher education makes obvious one long-needed course of action. Institution by institution, colleges must buckle down to a realistic examination of the essential nature of the academic community as it could and should be in the setting of each campus. Both faculty members and administrators must be brave enough and selfless enough to discover again the true academic community in which group endeavor is balanced by individual creativity.

The conclusion is also obvious: It is high time to get rid of the trappings and trivia of traditional college life. It is time to strip the college down to what it exists for in the first place. Then — and only then — will higher education be worthy of the new student of the '60's.

This means taking a sharp look at what the college actually is, in comparison to what it pretends to be. For instance, colleges can stop the nonsense about pretending to act in loco parentis. They can stop telling students that "we will regard you as adults" and then build little walls to keep the children confined. They can stop telling parents that every little need will be satisfied and every comfort earnestly provided.

Today's student is sufficiently adult to merit the freedom which ought to come with life at the college level. The great majority of students will meet every expectation if given the chance, free from the prenatal cord which now strangles rather than nurtures.

Indeed, on many campuses the students are taking the intelligent lead without waiting for the college. They are the ones who have given the ax to the junior proms, the useless little clubs, and the meaningless meanderings and social gatherings. They have allowed to expire the organizations which meet to elect officers to revise the constitution in time to elect new officers, and so forth ad nauseam.

Now is the time for the colleges to step in and help the students. The initial introduction to campus life is a good place to start. If college faculties honestly believe that the business of college is the business of learning, then let them demonstrate this belief in the publications furnished freshmen before they enter college (which are read so avidly and frequently swallowed at face value) and in the activities scheduled for entering students during their first week on the campus.

This may mean cutting out the picnics and the rallies and the chummy little get-togethers, and, instead, sending the freshmen off promptly to the business of learning in the classroom. It is no longer defensible to keep the eager student from attending

class while exhausting him with the trappings of campus life.

After orientation, the next step is to attack with vigor the entire experience of the freshman year. For a great many students today the freshman year is nothing but repetition and disappointment. College faculties know this to be true. It is time to stop talking about it and begin planning for something quite different and entirely challenging. A start can be made, for instance, by listening to what the freshmen themselves say about their first encounter with higher education. How a student receives his education, and the attitude he takes toward that "how," conditions substantially what he receives in the form of education.

High schools improved

THE student is ready for a lot more than he is given credit for, partly because of a change in thinking about the necessity of higher learning and partly because of substantial improvement in the quality of his preparation. In many ways, the high schools have left the colleges far behind. The concept of the freshman year is based on a high school education which, for the most part, no longer exists. At Chatham College, for example, when the present seniors were freshmen, 29% passed a language exemption examination on the basis of their high school language work. This past fall, three years later, 49% of the entering class passed the same examination.

In the freshman year, as well as throughout the entire curriculum, colleges cannot afford to do anything less than to rip out without mercy the repetitious, the unnecessary, and the lockstep. If college officials are honest, they will realize that all of campus life needs a thorough overhauling. The American high school is now offering — in all its gory messiness — what used to be

encountered in collegiate living. The overemphasis on football, the marching bands, the drinking parties, the steady dating, and the endless line of prom queens are all flourishing at the junior and senior high school level. Let those who are in the colleges go to work on something different for the present-day student. This means beginning all over again and finding a new rationale, a new justification beyond custom and tradition, for the various extra-class activities on a college campus.

The present and potential growth of the live-at-home community college presents a special challenge to the residential institutions. If a student can receive just as good an intellectual experience by skipping college life almost to the bare essential of attending class, then residential colleges have some thorough soul-searching to do. They must make college living a genuinely important experience in all its phases or stop making false claims.

The courage to undertake the kind of reassessment proposed here demands college officers who are willing to lead and not merely to preserve. Unfortunately, the trend is not in the right direction due to an over-professionalization in college administration. And over-professionalization means protectionism rather than co-operative progress.

In the first half of the 20th century, college administration dropped from the hands of scholars who were specialists in academic disciplines into the hands of administrators who are specialists in methodology. The rapidly growing number and range of professional organizations in education confirm the process of specialization.

First, the personnel deans spent time trying to find their place in the academic sun. Then the directors of public relations began to cluster and worry about their status. This was followed by the directors of stu-

dent unions. And right now there is a similar and potentially more dangerous movement among the professional fundraisers. This is a highly disturbing trend for unified academic administration. Too often the members of these groups fail to realize that true prestige comes from essential contributions to the basic work of higher education and not from posture, place in the hierarchy, or size of budgets and offices.

To be worthy of the new student, the entire college must share a sense of purpose in the academic community which provides unity in means as well as ends. The whole experience of college life will not be a totality for the student if those who set the course are not unified. In the light of the hopes and aims of the new student, the only justifiable rallying ground is found in an honest answer to the question of why the college exists in the first place. By no means does all of this imply a kind of sweat-shop intellectualism. Nor does it imply abandonment of the total education of the individual, but only finding new ways to meet new demands of the new student.

The colleges must return, in Woodrow Wilson's terms, to a mode of association, to a "home for the spirit of learning" which makes them more than a scattered collection of prestige-seeking, status-aspiring individuals. And that mode begins with unity in purpose and process; that home begins with those who are the permanent inhabitants.

Failure to respond in unity to the new student will eripile not only him, but every high purpose which a college or university serves. Success will bring about the realization of the great potential for human good which now lies hidden within the youngster who earnestly seeks higher learning, within the college, and, hopefully and humbly we add, within each who seeks to serve both the scholar and scholarship.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Atomic Energy Commission	\$74,381	High temperature materials phenomena	M. E. Bell and others
U.S. Air Force	321	Donation of equipment	G. U. Oppel
National Science Foundation	25,000	Construction of 45 meter absorption tube	D. H. Rank
Atomic Energy Commission	26,472	Enthalpy titrations in fused salts	Joseph Jordan
National Assn. of Artificial Breeders	1,500	Metabolism of bovine semen	R. J. Flipse
Pennsylvania Electric Co.	9,950	Graduate fellowship in civil engineering	T. D. Larson
American Smelting and Refining Co.	800	Cooperative program in metallurgy	R. W. Lindsay
U.S. Dept. of Health, Education, Welfare	1,906	Teaching grants and traineeships	Kenneth Hyllbert
Tennessee Valley Authority	7,225	Test demonstration farms fertilizer programs	T. H. Patton
Monsanto Chemicals Co.	1,300	Summer fellowships in chemistry	Thomas Wartik
Rohm and Haas Co.	500	Disease controls in grasses	H. B. Couch
Naugatuck Chemical	500	Fruit disease studies	F. H. Lewis
U.S. Air Force	15,000	Infrared spectra of nitrogen oxide	I. C. Hisatune
Jersey Production Research Co.	1,000	Catalog of fossil spores and pollen	William Spackman
Penna. Dept. of Agriculture	1,000	Soils characterization lab	R. P. Matelski
Penna. Christmas Tree Growers Assn.	400	Christmas tree production project	H. D. Gerhold
Resources for the Future, Inc.	13,557	Degraded hardwood forest study	Nicholas Muhlenthal
U. S. Air Force	10,000	Ionosphere research	A. H. Waynick
Latrobe Brewing Co.	8,000	Maltng barley production	R. P. Pfeifer
Sun Oil Co.	1,200	Fruit research at Arendtsville	Dean Asquith
Penna. Historical and Museum Comm.	5,000	Archaeological investigations at Raystown Branch	F. B. Matson

CALENDAR

Friday, May 11

Players production of "Once Upon a Mattress," 8 p.m. Schwab Auditorium.

NDEA French Institute lecture, 7:30 p.m., Home Economics Living Center. Dr. Vaclav Mares, professor of economics, on "France and the Common Market: Threat or Blessing for her Prosperity?" (In English.)

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Jack H. Wernick, Bell Telephone Laboratories, on "Metallurgical Aspects of High Field Superconducting Materials."

Saturday, May 12

Penn State Players' production of "Once Upon a Mattress," 8 p.m., Schwab Auditorium.

Center Stage production of "Man of Destiny" by G. B. Shaw and "Krapp's Last Tape" by Samuel Beckett, 8 p.m.

Varsity baseball, vs. Syracuse, doubleheader, 1 p.m.; varsity track, vs. Pittsburgh, Old Beaver Field, 2 p.m.; varsity lacrosse, vs. Swarthmore, 2 p.m.

International Festival, sponsored by World University Service, 1:30 p.m., Hetzel Union Building. Dances by Hillel Lamachol, the Schuplattlers, and Interlandia.

Graduate Student Association square dance, 8:30 p.m., HUB ball room. No admission charge.

Sunday, May 13

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Robert Boyer.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Robert A. Duke, associate professor of homeletics, Lancaster Theological Seminary, on "Are You He Who is to Come, Or Shall We Look for Another?"

Hillel Foundation Cultural Film Series, 8 p.m. "Animal Farm."

Monday, May 14

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Angelo Cavell, Rockview warden.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. J. Smith, on "Mechanisms of Fatigue."

Tuesday, May 15

Electrical Engineering Seminar, 4 p.m., Room 206A, Electrical Engineering. Dr. Paul H. Cutler, assistant professor of physics, on "Surface Potential Barriers."

Central Penna. Section, American Chemical Society, meeting, 8 p.m., Room 111 Boucke. Dr. Andrew A. Benson, U.C.L.A., on "Sulfolipids in Biochemistry."

Wednesday, May 16

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Frank D. Hoyt, on "Control Charts and their Application to Mining."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Charles Feinberg, on "Walt Whitman's Worksheets and Manuscripts."

Varsity tennis, vs. Bucknell, 3:30 p.m.

Thursday, May 17

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. L. Gierst, University of Brussels, Belgium.

Philosophy Colloquium, 4 p.m., Room 208 Willard. Richard H. Kennington, on "The Metaphysical Intention of Descartes."

Psychology Colloquium, 8 p.m., Room 112 Buckhout. Dr. Julian Hochberg, professor of psychology, Cornell University, on "Psychophysics of Pictorial Communication."

Iota Sigma Pi, women's chemistry honorary, meeting 8 p.m., Room 119 Osmond. Dr. Dorothy Simon, Avco Research and Advanced Development Division of Avco Corp. on "Ablation Cooling." Open to public.

International Film Series, 3, 7, and 9 p.m., HUB Assembly Room. "Ikiru."

Friday, May 18

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Robert Stoneley, Cambridge University, on "Geophysical Applications of the Theory of Wave Dispersion."

Political Science Graduate Faculty Seminar, 8 p.m., Chapel Lounge. Dr. Herbert A. Simon, associate dean, Graduate School of Industrial Administration, Carnegie Tech, on "The Theory of Decision Making."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Center Stage production of Shaw's "Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." J. Herbert Furth, Board of Governors, Federal Reserve Board, on "Problems of the U.S. Financial Policy."

Television Listings

WFBC - TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Folio 15 — daily programs, 9-9:15 a.m., from Sparks Building Studios, with faculty members of all Colleges featured.

faculty BULLETIN

Vol. 49, No. 41

May 11, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

NEWS IN BRIEF

► **HONORS:** Evan Pugh Medals were presented to 35 senior and junior students, selected from among the highest one-half per cent of the senior and junior classes at Honors Day ceremonies yesterday by the Honor Society Council. The program also included presentation of the President's Freshman Book Award to five freshmen who had attained a 4.0 average in their first two terms and the awarding of the President Sparks Medals to those who during the Fall and Winter Terms had attained 4.0 averages and had shown greatest improvement over the previous terms.

► **DONATION:** Employees in the Admissions and Registrar's offices in Willard Building have donated \$500 to the Penn State Foundation for the development of facilities at Stone Valley. The money represents a surplus accumulated over a period of ten years by the Employees' Council Fund of the office. The Fund is used to provide gifts to employees leaving or retiring and for the ill.

► **CONFERENCE:** Dr. William B. Edgerton, former assistant professor of Russian and now chairman of the department of Slavic languages and literature at Indiana University, will be one of the principal speakers for the Conference on the Teaching of Russian in Pennsylvania today (Friday) and tomorrow. The Conference will bring together teachers of Russian in the Commonwealth to discuss common problems. Dr. Thomas F. Magner, head of the Slavic languages department, is conference chairman.

Commonwealth Campus plan stated

SEVERAL changes in the existing Commonwealth Campus system are indicated in the master plan of the University as presented to Dr. Charles H. Boehm, superintendent of public instruction for the Commonwealth and coordinating authority in the development of Pennsylvania's plan for higher education.

Expansion of the Commonwealth Campus system to accommodate 10,000 freshman and sophomore students by 1970, instead of the 3,500 currently enrolled, is recommended in the University's plan.

Changes called for include the following:

1. Relocation of the Allentown Center to an Upper Bucks County site to serve commuting students from the Allentown-Bethlehem-Easton complex and the growing suburban areas of Bucks and Montgomery counties.

2. Expansion of activities in the Harrisburg area.

3. Conversion of Mont Alto into a Commonwealth Campus.

4. Consolidation of Wilkes-Barre and Scranton Centers at Scranton for more efficient operation.

5. Provision of programs of the first two years of baccalaureate work at all campuses as the need develops.

The plan is based on long-range population studies and assumes that enlarged facilities will attract a higher percentage of freshmen and sophomores to the Commonwealth Campuses rather than to University Park.

Proposed enrollments (1970) compared to current figures follow:

Full-Time Enrollments		
	1961 - 62	1970
Altoona	416	800
Behrend	287	800
DuBois	149	400
Hazleton	250	500
McKeesport	380	1100
Mont Alto	107	300
New Kensington	99	1000
Ogontz	961	1500
Pottsville	232	500
Scranton - Wilkes-Barre	290	700
Wyomissing	177	500
York	158	400
Lehigh - Bucks - Northampton	—	1000
Harrisburg	—	500

Blue Band

The Penn State Concert Blue Band will present its annual Spring Concert Sunday, May 27, at 3 p.m. in front of Pattee Library, with James W. Dunlop conducting. In case of rain the program will be given in Schwab Auditorium.

Featured will be music by a cornet quartet, a selection of music for trombones, and a newly-commissioned work for percussions.

Dunlop announces also that the Band will play for Commencement Exercises in June.

Distinguished

An insurance executive, two industrial administrators, a dairy specialist, and a consulting geologist, will be honored as Distinguished Alumni at ceremonies June 16 as part of the annual class reunion exercises.

The five selected for the honor by the Board of Trustees, "for their personal lives, professional achievements, and community service," are:

Fred Brand, Jr., Pittsburgh, insurance executive.

James B. McWilliams, Pittsburgh, chairman of the Board, Railway Maintenance Corp.

Enos J. Perry, Highland Park, N. J., retired Rutgers University dairy specialist.

L. P. Teas, Houston, Texas, consulting geologist.

Guy W. Wilson, Erie, general manager, Locomotive and Car Equipment Dept., General Electric Co.

Social science

Dr. Norton E. Long, professor of political science and director of education at Northwestern University Transportation Center, will be the speaker at the annual spring meeting of the Social Science Research Center Monday, May 21, at 8 p.m. in HUB dining room "A."

Currently on leave as staff consultant to the Governor of Illinois, Dr. Norton will speak on "Metropolitics," in which his writing and research have been concerned.

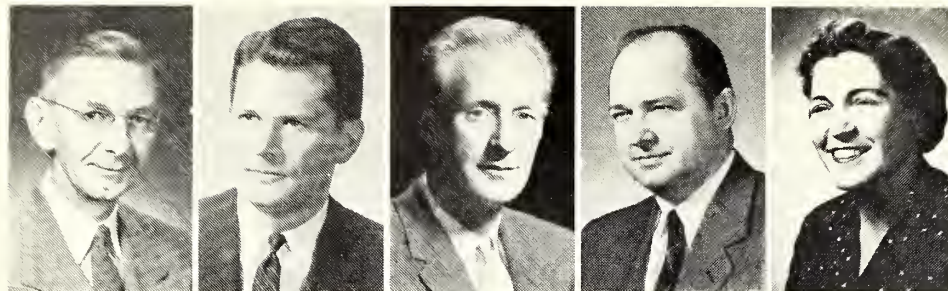
Dr. Long earned all three degrees at Harvard and has taught there as well as at Mount Holyoke, Queens College, Western Reserve, and Michigan State.

Soviet youth

The department of history and the Russian Area Committee are sponsors of a talk by Dr. Ralph T. Fisher, Jr., professor of history and director of the Center for Russian Language and Area Studies at the University of Illinois, Monday, May 21, at 8 p.m. in the HUB Assembly Room.

He will speak on "Soviet Youth."

Dr. Fisher has visited the Soviet Union four times in the past five years and is author of the book, "Pattern for Soviet Youth."



Gjesdahl

Cunningham

Ross

Smith

Hotchkiss

PERSONNEL MATTERS

Maurice S. Gjesdahl, professor and head of the department of mechanical engineering, will retire August 1 with emeritus rank and will be succeeded by Dr. Richard G. Cunningham, now professor of mechanical engineering.

Gjesdahl has accepted an appointment as professor of mechanical engineering at the College of Engineering in Poona, India, for an 18-24 month period to set up research projects for graduate students, give lectures, teach courses and work with teachers in the instructional program.

A University of Minnesota graduate, Gjesdahl was granted the master of science degree in engineering by Lehigh University. He taught at Augsburg College, in the Minneapolis public schools, and at Lehigh University and was a statistical engineer in Minneapolis before coming to Penn State in 1929. He resigned in 1942 for work in industry but returned in 1946. In 1950 he was named head of the division of machine design and in 1960 head of the department of mechanical engineering.

Dr. Richard D. Cunningham is a graduate of the Northwestern University Technological Institute and was granted advanced degrees by Northwestern also. He was a member of the Penn State faculty from 1951 to 1954, when he joined the Shell Oil Co. and served as research engineer, group leader, and as senior research engineer for seven years. He returned to the University last fall.

Dr. Gordon Ross Smith, associate professor of English, will teach at the Royal University of Malta on a Fulbright Fellowship during the coming academic year. He will teach one course in Shakespeare and another English literature course. He has recently completed a Shakespearean bibliography which will be published by the University Press soon. It will contain more than 25,000 items concerning Shakespeare which were published between 1936 and 1958.

Duncan Ross, former director of the Old Vic Theatre School at Bristol, England, will teach courses in acting and directing during the Summer Term, stressing the Shakespearean theatre in his course on acting techniques. At present, he is in this country as visiting associate professor at the Drama School of the University of Washington. In addition to directing Old Vic Theatre School for seven years, he has also been director of the Nottingham Playhouse and professional director at the Bristol Theatre Royal, Old Vic Company.

Dr. Alida S. Hotchkiss has been named assistant dean for research in the College of Home Economics and professor of family relationships, effective July 1, to succeed Mrs. Ruth R. Ruef who will resign from professional work June 30. Since 1960, Mrs. Hotchkiss has been at the University of Arizona as associate professor of home economics and associate home economist in the Experiment Station. She was a member of the Penn State faculty from 1957 to 1959 as associate professor of home management and family economics. She was granted three degrees by Cornell University and taught and conducted research there from 1933 to 1942.

Dr. Olof E. H. Rydbeck, professor of electron physics and director of the Research Laboratory of Electronics at Chalmers University of Technology, Gothenburg, Sweden, has been appointed distinguished visiting professor of electrical engineering, effective Aug. 1. He will do research in the Ionosphere Research Laboratory also.

C. Otis Cromer, who retired in 1946 as professor of crop production after 26 years on the faculty, died Saturday, May 12, at the age of 81. He was a Purdue graduate, with a master's degree from the University of Wisconsin, and had taught at Purdue for 14 years before coming here.

BOOKS

Dr. Earl P. Strong, assistant dean of the College of Business Administration, "Increasing Office Productivity," published this month by McGraw-Hill. A direct, non-technical explanation of a seven-step program to improve office productivity.

Dr. Hazel M. Hatcher, professor of home-community relationships and home economics education, with Mildred E. Andrews, "Adventuring in Home Living" has been translated into Arabic and published in Beirut, Lebanon.

H. A. Atwater, associate professor of electrical engineering, "Introduction to Microwave Theory," published last month by McGraw Hill Book Co.

Dr. Donald E. H. Frear, professor of agricultural and biological chemistry, "Pesticide Index," published by College Science Publishers. It contains over 3,000 chemical, coined, and common names of compounds used as insecticides, fungicides, herbicides, rodenticides, etc., cross-indexed with information on chemical structure, properties and toxicities.

Dramatics

Applications for registration of children in the summer creative dramatics classes is now taking place, through the office of the Department of Theatre Arts, 201 Schwab Auditorium.

Classes will be held every Monday, Wednesday, and Friday from July 6 to Aug. 17 for: children in or about to enter grades 3 and 4, 9:35 to 10:30 a.m.; for children in or about to enter grades 5 and 6, 11:10 a.m. to noon.

Meditation choirs

The Meditation Chapel Choirs, James W. Beach conducting, will present the fifth annual spring concerts Tuesday, May 22 at 8 p.m. and Thursday, May 24, at 4 p.m., in The Chapel.

Works of Pachelbel and Schubert will be sung Tuesday and of American composers Thursday. The latter program will also include an organ suite and a setting of The Magnificat by George E. Ceiga, University organist.

Chapel Choir

The University Chapel Choir, directed by Mrs. Willa Taylor, and the Symphony Orchestra, conducted by Theodore Karhan, will present the annual spring concert Saturday, May 19, at 8 p.m. in Schwab Auditorium.

Barbara Troxell and Raymond Brown will be featured as soloists in the Choir's singing of Brahms' "German Requiem." The

Items of Interest

Articles and Papers

- ALBINSKI, H. S., political science, "Australia Faces Asia," in the April issue of Asian Survey, produced by Institute of International Studies, Univ. of California.
- AUSTIN, L. G., fuel technology, "A Radioactive Tracer Technique for the Determination of Breakage Functions and Prediction of Weight-Size Distribution from Selection and Breakage Data," at the First European Symposium on Size Reduction.
- BROWN, J. L., Jr., Ordnance Research Lab, "On the Determination of Excitation Coefficients for a Chebyshev Pattern," in March issue of I.R.E. Transactions on Antennas and Propagation.
- Discussion on "Frequency Spectrum Distortion of Random Signals in Non-Linear Feedback Systems," in the March Proceedings of the I.E.E. (London).
- CAMPBELL, R. A., engineering graphics, "What Does Research Say" at the national convention, American Industrial Arts Association.
- CHENG, T. H., zoology, and Frear, D. E. H. and Enos, H. F., Jr., ag biochemistry, "The Use of Spray and Aerosol Formulations Containing R-1207 and Dimethoate for Fly Control on Cattle and Determination of Dimethoate Residues in Milk," in February issue of the Journal of Economic Entomology.
- CORSO, J. F., psychology, "Auditory Stimulation and Induced Changes in Autokinetic Movement" with Soloyanis, George, at the Spring Meeting, Penna. Academy of Science.
- DEASY, G. F. and Griess, Phyllis R., geography, "Stripped and Breaker Waste Lands of the Anthracite Region" and "Some Specific Potential Tourist Sites in the Anthracite Region" in Volume 35, Proceedings of the Pennsylvania Academy of Science.
- ENGLE, H. B., Landisville, McMurtrey, J. E., Brown, D. E., and Bowling, J. D., "Mulches for Maryland and Pennsylvania Tobacco in the May 11 issue of TOBACCO.
- FERGUS, C. L., botany and plant pathology, Cobb, F. W., Jr., and Stambaugh, W. J., "The Effect of Temperature on Ascogonial and Perithecial Development in *Ceratocystis fagacearum*," in the January-February issue of Mycologia.
- KOUNTZ, R. R., sanitary engineering, "Radioactive Waste Water Distillation Data and Costs" before the 17th annual Industrial Waste Conference of Purdue University.

- KUSPIT, D. B., philosophy, "Das Elend des Studierens," in the February issue of Diskus.
- LECZNAK, F. J., physics, "The Phenomena Occurring during the Topochemical Reactions of Hematite," and also "Reactivation of Prematurely Hydrated Portland Cement" in the Journal of Scientific and Industrial Research.
- MAGNER, T. F., Slavic languages, "The Student and Russian Grammar," in the Spring issue of "The Slavic and East European Journal."
- MARBUT, F. B., journalism, "James Gordon Bennett and the Development of Washington Correspondence," at the convention of the Mississippi Valley Historical Association in Milwaukee.
- MILLER, E. W., geography, "Changing Patterns of Fuel Production and Consumption in the European Coal and Steel Community Countries," in Vol. 35 of the Proceedings of the Pennsylvania Academy of Science.
- REIFSNIDER, ROBERT, theatre arts, "The Foothills Playhouse," in the April-June issue of New Theatre Magazine.

Elected and Appointed

- ISENBERG, M. W., architectural engineering, appointed to the Planning Committee on Fire Protection of Buildings and Fire Safety to Life, Building Research Institute.
- KLAUS, E. E., chemical engineering, appointed to the Joint Planning Committee, American Society of Mechanical Engineers and the American Society of Lubrication Engineers for the Ninth Annual Lubrication Conference.
- MACKENZIE, OSSIAN, Business Administration, elected to the executive committee, The American Association of Collegiate Schools of Business.
- MILLER, E. W., geography, appointed chairman of the membership committee, Pennsylvania Academy of Science.
- VEON, DOROTHY H., education, appointed editor for the 1962 Yearbook for American Business Education, published by National Business Teachers Association and the Eastern Business Teachers Association.
- WELLINGTON, A. M., counselor education, elected a senator by the American Personnel and Guidance Association, for 1963.
- elected to the Publications Board of the APGA for a three-year term.
- re-elected to the Executive Board, Student Personnel Association for Teacher Education.

Lectures and Talks

- AUSTIN, L. G., fuel technology, on fuel cells, at the University of Cincinnati.
- COLOGNE, ROSE, home-community relationships, on "Afghanistan" before the Philadelphia Association of Hospital Auxiliaries.
- HEIDE, E. E., New Kensington, panel member on sociology and on administration at conference on social sciences in junior and community colleges, at Yeshiva University.
- HUDSON, G. R., counselor education, "Group Counseling" before the New York State Counselors' Association Convention in New York.
- KOCHANOWSKY, B. J., mining engineering, "Angle Drilling" at the University of Minnesota Rock Mechanics Symposium.
- "Blasting" at the American Mining Congress meeting in Pittsburgh.
- MILLER, E. W., geography, presidential address before the Pennsylvania Council for Geography Education, on the future of the Council.
- MUELLER, E. W., physics, "Defect Structure of Metal Crystals," before the graduate seminar of the College of Ceramics, State University of New York at Alfred.
- VAIRO, J. D., journalism, before the annual convention of the Maryland Scholastic Press Advisors' Association on judging of high school newspapers.
- WELLINGTON, A. M., counselor education, an illustrated lecture, "Automation in Instruction" at a Symposium on programmed instruction sponsored by the University of Akron.

The Arts

- CAMPBELL, W. P., music education, guest conductor, All City Festival, Oil City Chorus.
- guest conductor, All-State Chorus, Region II, Pennsylvania Music Educators Association.
- RAVER, LEONARD, music, guest organist for Greenwich (Conn.) Choral Society in program of Handel's music.
- organ recital of contemporary music for the Boston chapter, American Guild of Organists.
- VAN DOMMELEN, D. B., home art, exhibiting a wall hanging, "Rocks and Roots," in the 17th National Decorative Arts and Ceramics Exhibition in Wichita.

Patents

- LECZNAK, F. J. physics, issued April 10 by Canadian Patent Office on "Concrete and Mortar and Method of Producing."

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
U.S. Public Health Service	\$ 49,605	Training grant for clinical psychology program	Leon Gorlow
Department of Navy	263,630	Equipment under Ordnance Research Laboratory contract	
U.S. Dept. of State	1,081	Correspondence course in water supply engineering	J. C. Johnson
Diamond Ordnance		Theoretical and laboratory research in fuel cell mechanisms	R. R. Kountz
Fuse Laboratories	24,266	Vapor barriers under slabs	L. G. Austin
Federal Housing Administration	2,800	Cooperative program in Metallurgy	E. C. Shuman
Aluminum Co. of America	150	Titanium and zirconium phosphides	R. W. Lindsay
Atomic Energy Commission	5,500	Hydrocarbons of high molecular weight	Karl Gingerich
American Petroleum Institute	48,900	Crystal chemistry of high pressure	J. A. Dixon
Office of Naval Research	30,350	Residue equipment remaining from completed contract	Rustum Roy
Air Force Office		Conservation Education laboratory	Ling Hu
of Scientific Research	13,960	School psychology	H. S. Fowler
Penna. Game Commission	1,000	Development of interpersonal attitudes among children	Ellen Piers
U.S. Public Health Service	9,927		C. B. Broderick
ibid.	8,625		

CALENDAR

Friday, May 18

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Robert Stoneley, Cambridge University, on "Geophysical Applications of the Theory of Wave Dispersion."

Political Science Graduate Faculty Seminar, 8 p.m., Chapel Lounge. Dr. Herbert A. Simon, associate dean, Graduate School of Industrial Administration, Carnegie Tech, on "The Theory of Decision Making."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Center Stage production of Shaw's "Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." J. Herbert Furth, Board of Governors, Federal Reserve Board, on "Problems of the U.S. Financial Policy."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Peter Shaw, department of physics, Carnegie Tech, on "Polarization Effects in High-Energy Pi-N Scattering."

Physics Seminar, 1:30 p.m., Room 216 Osmond. Peter Shaw, on "Inelastic Effects in the Resonance Region of Pi-N Scattering."

Saturday, May 19

Final night of Center Stage Production of Shaw's "Man of Destiny" and Samuel Beckett's "Krapp's Last Tape," 8 p.m.

University Chapel Choir and Symphony Orchestra Concert, 8 p.m. Schwab Auditorium, with Barbara Troxell and Raymond Brown as soloists.

Varsity golf, vs. Lehigh, 1:30 p.m.; track, vs. Quantico Marines, 2 p.m., Old Beaver Field; lacrosse, vs. Colgate, 2 p.m.

U.C.A. Forum, 8 p.m., Room 212 The Chapel. Dr. Hans Hofmann, director of Harvard University Project on Religion and Mental Health, on "Responsibility and Values."

Sunday, May 20

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. John A. Whitney.

Roman Catholic Mass, Schwab Auditorium, 9 a.m.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Hans Hofmann, Harvard University, on "The Barren Fig Tree."

Hillel Foundation Cultural Film Series, 8 p.m. "Death of a Salesman."

Concert by Women's Chorus, directed by W. Paul Campbell, 3 p.m., Schwab Auditorium.

Monday, May 21

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." John Steelie, general manager, WFBC-TV, Altoona, on "Service to the Community."

Social Science Research Center Spring Meeting, dessert and coffee, 7 p.m., speaker at 8 p.m., HUB dining room "A." Dr. Norton E. Long, Northwestern University, on "Metropolitics."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. R. Greger, on "Point Imperfections and Diffusion."

Lecture sponsored by Russian Area Committee and department of history by Dr. Ralph T. Fisher, University of Illinois, on "Soviet Youth," 8 p.m., HUB Assembly Room.

Tuesday, May 22

Varsity baseball, vs. Temple, 3:30 p.m.

Fifth Spring Concert of Meditation Chapel Choirs, conducted by James W. Beach, 8 p.m., The Chapel.

Wednesday, May 23

Phi Lambda Upsilon, 7:30 p.m., Room 214 Boucke. Dr. Rustum Roy, professor of geochemistry, on "Scientists' Responsibilities in Society."

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Donald Skels, on "Alternatives to Hoskold Formula for Mine Valuation."

Thursday, May 24

Mechanical Engineering Seminar, 3:55 p.m., Room 105 Mechanical Engineering. A. D. Mullholand, Jr., on "Compressible Flow in a Variable Mass System," and L. A. Guzzi, on "The Air-Wall Concept."

International Film Series, 3, 7, and 9 p.m., HUB assembly room. "The Informer."

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. Edward M. Arnett, University of Pittsburgh, on "Weak Organic Bases."

Annual Spring Concert of Meditation Chapel Choirs, 4 p.m., The Chapel.

Friday, May 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Ronald Green, professor of geophysics, University of Tasmania, on "Geophysics in Australia."

Television Listings

WFBC - TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Folio 15 — daily programs, 9-9:15 a.m., from Sparks Building Studios, with faculty members of all Colleges featured.

faculty BULLETIN

Vol. 49, No. 42

May 18, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Personnel matters

Dr. Frederick B. Marbut, professor of journalism, will serve as a visiting professor of journalism at the National University of Nicaragua from June 15 to Feb. 28 under a grant provided by the Smith-Mundt Act. He has previously served as lecturer in Bolivia in 1957, in five South American countries in 1958, and as short course teacher in Jamaica in 1960.

The Rev. Dr. Luther H. Harshbarger has resigned as chaplain and co-ordinator of religious affairs to spend full-time as professor of humanities and religious studies in the College of the Liberal Arts. He has been chaplain since 1951 and co-ordinator of religious affairs since 1954.

Thomas F. Brannan, a registered professional engineer who has been with the consulting firm of Eustance and Horowitz, Middletown, N. Y., has been named instructor in sanitary engineering. He is a graduate of Rensselaer Polytechnic Institute.

Herbert C. Terndrup, Cambria County extension agent, has been named winner of a Dow Study Tour Scholarship and will tour, with other winners 11 eastern, southern, and mid-western states in a study of marketing enterprises, outstanding farm operations, extension programs, and rural development and research projects.

Extension of current leaves of absence have been granted to **Arthur H. Brickman**, associate professor of mechanical engineering, to June, 1963; and to **Samuel S. Lestz**, assistant professor of mechanical engineering, until June, 1963; both to continue studies toward doctorate degrees.

NEWS IN BRIEF

► **ADVOCATES:** Some 400 Penn State Advocates, men and women in the Commonwealth whose knowledge and background are especially valuable to the University in support of its program, visited the campus yesterday, were addressed by President Walker, and made a tour by bus and by a special closed-circuit television show. They represented 65 counties of the State.

► **FELLOWSHIPS:** Twelve Graduate School Fellowships have been granted by the University on recommendation of the Graduate School Committee on Scholarships and Awards. Each fellow receives a stipend of \$2,000 for the fall, winter, and spring terms and a grant-in-aid to cover all tuition for the three terms. Recipients were in the following fields: solid state technology, history, physics, counseling in education, child development and family relationships, geography, physics, physical education, political science, English, and mathematics.

► **OLD:** A small informational pamphlet published by the University in 1980 and which turned up in a book purchased at an auction in Pittsburgh, has been turned over to the Pattee Library by Ralph W. Volkwein, of Pittsburgh. The pamphlet explained the room and board situation, travel routes, and tuition charges, etc.

► **WORKSHOPS:** Graduate level workshops in safety education will be held July 9-27 and July 30 to August 14 by the Institute of Public Safety. All-State Insurance Co., of Pittsburgh, has provided \$1,500 for summer scholarships for participating teachers. The workshops are titled "Teaching Traffic Safety and Automobile Operation" and "Visual and Other Aids in Safety Education."

► **PIVOT:** Unusual indications of support for the poetry magazine, *Pivot*, product of the Poetry Workshop, was the purchase recently of 25 copies by a private research company, Scott Research Laboratories, for distribution to its clients. Final sales of the magazine are expected to top 2,000.

► **MEAT:** Sales of meat at the University are held every Friday, from 1:30 to 5 p.m. at the Meat Sales Room across from Beaver Stadium.

► **ELECTED:** President Walker has been elected to the Board of the Engineering Foundation, research department of the United Engineering Trustees, Inc. The Foundation is a joint research organization of five major national engineering organizations.

► **TENNIS:** Faculty and staff members, as well as students and other area residents, are eligible to become members of the Penn State Tennis Club. Membership dues for the club are: single man or woman, \$25 for the season, \$12.50 per month; husband and wife, \$35 for the season, \$15 for the month; family membership, \$45 for the season, \$17.50 per month. Guest fee is 75 cents for a half day. Membership fees may be paid at the main ticket office, Recreation Building, or at the varsity courts, near the ice rink. For further information, call John Egli, UN 5-4851.

► **CHILDREN:** The television program, "Key to the Cupboard," will be resumed in the fall, featuring Dr. Edward L. Mattil, head of the department of art education, and Francois, the puppet mouse. The programs will be video-taped this summer, with children from the area participating. Parents of children between the ages of 5 and 10 who are interested in participating should arrange with the Department of Art Education for an interview prior to June 10. Department phone is UN 5-5601.

► **PARTICIPATED:** Dr. Grace M. Henderson, dean of the College of Home Economics, participated in a conference recently at Earlham College, in Indiana, on the subject of Undergraduate Education for Women. Dr. Theodore A. Distler, executive director of the association of American Colleges, was principal speaker.

► **HONORED:** J. E. Holtzinger, president and general manager of the Altoona Mirror newspaper and a trustee of the University, was one of two men honored at the Pennsylvania Press Conference last week. He received the Distinguished Award, along with Blair M. Bice, publisher of the Morrison Cove Herald.

Europe flights

Two flights to Europe under the recently authorized group plans still have a few places available for University faculty and staff members, their spouses, and dependent children.

A flight leaving New York June 27 and returning from London July 13 is being arranged by Dr. Erwin Schmerling, AD 8-6037 and UN 5-6337. Price is \$289.

A flight leaving New York July 3 and returning from London Sept. 6 is being arranged by Dr. Lowell Schoenfeld, AD 8-9528, or Kenneth Kraus, UN 5-7374. Price is \$300.

Program anniversary

The television program, "Farm, Home, and Garden" produced week-days by the Agricultural Extension Service, will observe its fifth birthday with a special show June 5, at 1 p.m.

Instead of originating in the usual television studios in Sparks Building, the program will come from Room 10, Sparks, with some 400 guests in the audience, and with President Walker, Dean Lyman E. Jackson, Associate Dean Russell E. Larson, and John Steelie, manager of Station WFBG-TV, Altoona, which carries the program daily.

Guests for the telecast will include members of the State House and Senate Agriculture Committees and of the Board of Trustees of the University, as well as members of the general public. Tickets for the telecast were taken weeks ago.

In addition to the usual features of this program, telecast usually without an audience, there will be a warm-up and rehearsal to show the guests how a television program is normally put on. For the first time, reports director William H. Folwell, there will be applause on cue.

Folwell has directed the program since its inception and the personnel of the Division of Academic Research and Services have provided the technical assistance. About 1200 programs have been done, aimed not only at the farmer but also at the urban and suburban viewer and their families. The half-hour show is only one of a number of ways the Extension Service gets to the public however; radio shows and special telecasts are provided to stations in the State in one of the most successful agricultural extension communications programs in the country.

Honors Day

The first College of Engineering and Architecture Advisers Award will be presented at Honors Day ceremonies for the College Tuesday, May 29, at 2:20 p.m. in Schwab Auditorium.

Established by the Pennsylvania State University Engineering Association, organization of alumni of the College, the award provides not less than \$200 and a certificate to a member of the Engineering faculty in recognition of outstanding service as an adviser of undergraduate students.

The name of the winner will be announced at the ceremony. In addition to the Adviser Award, announcement will be made of the fellowships, scholarships, medals, and other awards won by the faculty and students of the College during the past year.

Fleet operations

Only university employees may drive the sedans and station wagons in the 75-car fleet maintained in the Transportation Division, S. H. Campbell, vice president for business, announced this week.

The change in policy (in the past undergraduate and graduate students were permitted to operate the cars) went into effect May 14.

The fleet, which annually runs up a total of about two million miles of travel in the State and throughout the country, also includes a 29-passenger and a 37-passenger bus. The buses must be driven by a trained driver assigned by the Transportation Division, who is responsible for the safe operation of the bus and for selection of the routes to be taken.

Alumni award

Oliver Smith '39 will be granted the Distinguished Alumni Award June 16, along with five others previously announced by the Board of Trustees.

Probably the foremost theatrical designer in this country, Smith demonstrated his talents early in his student career and did much work for college productions.

Smith's professional design work has touched all phases of the theatre, opera, ballet, motion pictures, musical comedy, and drama. In addition to design work he has been a producer and also co-director since 1945 of the American Ballet Theatre.

His talents as a painter in water colors have also been widely recognized in exhibits.

Exhibit

An exhibit of artifacts from the excavations at Teotihuacan, Mexico, collected by Dr. William T. Sanders, assistant professor of anthropology, during the past several years is currently on display in the Pattee Library foyer cases and wall cabinets. Dr. Sanders, who will return to the site this summer with Penn State students as aides, is being aided by a \$16,500 grant from the National Science Foundation. The site is near Mexico City.

Band concert

James W. Dunlop will conduct the Concert Blue Band Sunday, May 27, in a concert at 3 p.m. on the steps of the Pattee Library, or at Schwab Auditorium in case of rain.

The program will include a variety of selections from the familiar "Stars and Stripes Forever" to Glen Osser's "Begun for Band" to Verdi's "Nabucco."

CALENDAR

Friday, May 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Ronald Green, professor of geophysics, University of Tasmania, on "Geophysics in Australia."

Graduate Student Association dance for graduate students and faculty, 9 p.m., State College V.F.W. Tickets 25 cents at HUB desk.

Saturday, May 26

Pennsylvania Interscholastic Athletic Association championships in track, golf, and tennis.

Sunday, May 27

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. Arthur Seyda.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain, on "The Christian's Role in the World."

Penn State Blue Band Concert, 3 p.m., Pattee Library steps (Schwab Auditorium in case of rain) with James W. Dunlop conducting.

Monday, May 28

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Angelo Cavell, warden of Rockview, on "Custody Treatment and Agricultural Industries — A Coordinated Program for Rehabilitation."

Meeting of faculty of College of Physical Education and Athletics, 7 p.m., White Building Recreation Room.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. Wilkov, on "Creep and Fracture."

Tuesday, May 29

Economics Faculty Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. Richard E. Quandt, Princeton University, on "An Investigation of the Stability Properties of Certain Price Adjusting Oligopoly Models."

College of Engineering and Architecture Honors Day program, 2:20 p.m., Schwab Auditorium. Announcement of Adviser's Award and other honors.

Wednesday, May 30

Memorial Day, offices closed.

Thursday, May 31

Chemistry Colloquium, 12:40 p.m., Room 302 Whitmore. Dr. L. A. K. Staveley, Oxford University, England, on "Recent Experimental Tests of Modern Theories of Non-Electrolyte Solutions."

International Film Series, 3, 7, and 9 p.m., HUB assembly room. "Carnival in Flanders."

Television listings

WFBG-TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Folio 15 — daily programs, 9-9:15 a.m., from Sparks Building Studios, with faculty members of all Colleges featured.

Moved

The offices of A. C. St. Clair, director of purchases, and his staff are now located in the Research Center on East Campus, near the new Graduate Housing units. Approach to the Center is from University Drive. The telephone number remains as UN 5-7561.

McKeesport Campus

ON Sunday, May 6, the Buck Student Union Building at the McKeesport Campus was dedicated with appropriate ceremonies attended by President Walker and many local officials including the mayor, State Senators and Assemblymen. The dedication served to re-emphasize the significant role of the Campus in the community, in one sense unusual in view of the presence in the general area of such colleges and universities as the University of Pittsburgh, Carnegie Tech, Duquesne, Mount Mercy, Chatham, and Seton Hill.

In 1948, after many years of providing evening class technical instruction in the area, the University opened the McKeesport Center in a large but old mansion at Dravosburg, offering a one-year technical institute day program and continuing the evening class program. It was the type of program the community needed because none of the colleges in the region offered it, and the people of the area were beginning to understand the place of higher education in the future. Many of the students were first-generation college goers, as they are today.

A public school building in the heart of the city served as the base for the Center for a number of years as the McKeesport Advisory Board, headed by Milton Frable, Duquesne Light Co. official, initiated a drive to obtain more permanent and larger facilities. William L. Buck, for whose mother, Mrs. Kimelman Buck, the Student Union Building has been named, provided a ten-acre plot near the Renziehausen Park section of the city, the Advisory Board raised \$240,000 for construction of the main building, with classrooms, offices, a cafeteria, a library, and dispensary, and in the Spring Semester of 1957 the new quarters were opened. Two years later the Science Laboratory was completed. The Buck Student Union Building, containing a lounge, cafeteria, bookstore, student meeting rooms, and office was built by student fees. Even now there is in the planning stage an expansion of the Main Building to obtain classrooms, a larger library, storage space, faculty offices, and an administrative area.

In one sense the backbone of the McKeesport Campus has been the technical programs and, since they were initiated, the two-year associate degree programs in engineering technology, largest of all in the Commonwealth Campus system. It is no surprise that this is true; McKeesport is heavily industrialized, a city of 50,000 in an area of many other large industrial towns in Westmoreland, Allegheny, and Washington counties.

For the Spring term, total day enrollment is 315, exceeded only by that at Ogotz and Altoona, and the associate degree enrollment is 174. Most of the baccalaureate programs of the University are offered at McKeesport but, as expected, nearly half of the baccalaureate students are enrolled in engineering. There are no



Kearney



New Buck Union Building at McKeesport Campus
Dedicated May 6

resident students but commuters arrive by all manner of conveyances from distances of up to 25 miles. The male-to-female ratio is 24-1 but the number of women students is increasing steadily.

Dr. Walter A. Kearney heads the faculty at McKeesport, a post he has held since 1959, when he succeeded Daniel T. Hopkins. A graduate of Penn State in 1934, Dr. Kearney had teaching and supervising experience in schools in Hollidaysburg, Mt. Union, Monongahela, and Bellefonte before he joined the University staff in 1949 as associate professor of education and director of teacher placement. In 1954 he became superintendent of New Castle schools. He rejoined the staff at the time the McKeesport Campus added baccalaureate work to its already successful technical work.

The faculty consists of eleven General Engineering teachers, two in English, two in Math, two in Chemistry, and one each in Zoology, Psychology, History, Romance languages, Physics, and Speech. It is a young faculty, the oldest in point of service to the University being James M. Ciancio, assistant professor of general engineering, who joined the faculty in 1953. In the associate degree program, many of the instructors have had extensive industrial experience. Among part-time people called on to help have been a local attorney, and a certified public accountant. Of the permanent faculty, five are Penn State graduates, seven are from the University of Pittsburgh, and other schools represented are Duquesne, Cornell, Maryland, and Boston College.

Student activities include a weekly newspaper, debate and chess clubs, a religious affairs group, and special events such as lectures and exhibits.

The evening class program at McKeesport continues vigorous, with more than 400 enrolled annually in these Continuing Education programs administered by Charles R. Meck and Edward R. McNutt.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts.)

DONOR	AMOUNT	PURPOSE	IN CHARGE
National Science Foundation	\$ 6,100	Instructional scientific equipment program	W. M. Lepley
ibid	25,000	same	R. G. Stoner
ibid	16,500	Prehistoric settlement patterns of Teotihuacan	W. T. Sanders
U. S. Air Force	19,984	Heat and momentum flux in the planetary boundary layer	A. K. Blackadar
ibid	25,070	Purchase of Norelco double channel system for stroboscopic pulsed X-ray diffraction system	Ray Pepinsky
Union Carbide Chemicals, Inc.	500	Studies with miticides	Dean Asquith
E. I. DuPont de Nemours and Co.	500	Fungicides and mixtures for apples, peaches, cherries	F. H. Lewis
Penna. Dept. of Forests and Waters	4,000	Forest Stand Fertilization project	S. D. Schemnitz
Cooperative G. L. F.	1,000	Biology of grape phylloxera	J. A. Cox
Stauffer Chemical Co.	750	Fruit disease research at Arendtsville	F. H. Lewis
Hooker Chemical Corp.	500	Mite studies at Arendtsville	Dean Asquith
Diamond Alkali Co.	500	Fruit research at Arendtsville	F. H. Lewis
Stauffer Chemical Co.	500	Fruit pests research at Arendtsville	Dean Asquith
The Squibb Institute	975	Fruit tree disease research at Arendtsville	F. H. Lewis
Hercules Powder Co.	500	Apple mite control studies	Dean Asquith
Cooperative G. L. F.	3,000	Pasture research	J. B. Washko
Cordelia Scaife May	1,000	Support of Southwestern Field Research Lab	L. D. Wissinger
Joseph H. Hill Memorial Fdn.	2,500	Greenhouse rose research	J. W. Mastalerz
California Chemical Co.	800	Fruit disease research	J. G. Lewis
The Squibb Institute	700	Fungicide research	J. S. Boyle

Items of Interest

Articles and Papers

ALMQUIST, J. O., dairy research, and MOYER, R. F., "Diluents for Bovine Semen. Livability of Spermatozoa Stored at Ambient Room Temperatures in Diluents Containing Skimmilk" in the March issue of the Journal of Dairy Science.

At the two-day conference on Teaching of Russian, papers by the following: BIRKENMEYER, S. S., "Pattern Drills: Theory and Practice;" KAPITANOFF, LORRAINE T., "The Teaching of Technical Russian;" OCISNER, NICHOLAS, "First Year Russian at Penn State."

DUNNE, H. W., and WINTER, A. J., veterinary science, "An Antigenic Analysis of Vibrio fetus. Properties of Soluble Extracts of the Organism," in the January issue of the American Journal of Veterinary Research.

ESSENHUGH, R. H., fuel technology, five articles on combustion phenomena in coal dusts, in successive issues of Colliery Engineering.

GIVEN, P. H., fuel technology, "Study of Functional Groups in Coals by Means of Radioactive Tracers" before the Fuel Chemistry Division, American Chemical Society.

HOWELL, D. E., Behrend sociology, "The Elements of Cultural Change" in the April issue of The Torch.

JOHNSTONE, H. W., JR., philosophy, "Self-refutation and Validity" at the Spring symposium of the department of philosophy, University of Rochester.

KUMMER, H. W., and MEYER, W. E., mechanical engineering, "Skid Resistance, A Problem in Measurement," at the annual meeting of the American Society for Testing Materials, June 25-29.

MCCORMICK, J. R., Ordnance Research Lab, "Driving-Point Impedance of Plates" at the 63rd Acoustical Society of America meeting.

MCDIVITT, J. F., mineral economics, "Mineral Raw Materials for European Industry" in the Winter issue of European Productivity, publication of the O.E.C.D., in Paris.

PALLADINO, N. J., and FODERARO, A. H., nuclear engineering, technical report, "Intrinsic Reactor Safety Through Design" at the International Atomic Energy Agency Symposium in Vienna, Austria.

PRICE, ROBERT, philosophy, "The Parallel Lives of Aristotle and Wittgenstein" at the Spring meeting of the Western Pennsylvania Philosophical Society.

ROY, RUSTUM, geochemistry, nine papers at the annual meeting of the American Ceramic Society, in materials science, with DACHILLE, Frank; Roy, Della M.; Stubican, Vladimir; Bogardus, E. H.; Buhsner, C.; Blinov, V.; Datta, R.; Myers, M. B.; and Zeto, R.

TISDALL, W. J., special education, "A Total Program for the Severely Mentally Retarded," with James Moss, U. of Illinois, in the March issue of the Journal of Exceptional Children.

—"Productive Thinking in Retarded Children," before the national convention of the Council for Exceptional Children.

VAIRO, J. D., journalism, "High School Journalism Today," before the annual convention of York-Adams Scholastic Press Association, in York.

WELLINGTON, A. M., counselor education, "Current Research in Counselor Education" at the annual meeting of the Association of Counselor Education and Supervision, in Chicago.

—"Spate Did Not get an 'A' at TEPS," in the Spring issue of the Journal of Student Personnel Association for Teacher Education.

Lectures and Talks

DACHILLE, FRANK, geochemistry, "Some Interactions of the Earth with Very Large Meteorites" before the South Carolina Academy of Science, at Winthrop College.

EAST, MARJORIE, home economics education, "Curriculum Trends in Home Economics in Higher Education" and "The Professional Life of a Home Economist" at the state-wide meeting of the Indiana Home Economics Association.

GIVEN, P. H., fuel technology, "Chemistry of Coal Macerals" before the Coal Technology Group, Pittsburgh Section, The American Chemical Society.

JACKSON, D. N., psychology, "Selecting Americans for Overseas Assignments," before students and faculty at St. Xavier College, Chicago, in the distinguished visiting scientist program of the National Science Foundation.

JORDAN, JOSEPH, chemistry, a lecture at the 7th International Conference on Coordination Chemistry, June 25-29, in Stockholm, on "Thermochemistry of Cyano-Complexion in Fused Nitrates."

KAFKA, ANDREW, English at Hazleton, "English and Speech Needs during the First Year in College," before the English and Speech Curriculum Committee at the Annual Curriculum Conference, Penna. Dept. of Public Instruction.

LOVENBERG, MIRIAM E., foods and nutrition, at the annual meeting of the New York Dietetics Association on the activities of the American Dietetics Association.

MANN, C. W., JR., Pattee Library, "Rare Books in Small Libraries," before regional branch of the Pennsylvania Library Association.

McKINLEY, D. H., Business Administration, "Economic Trends of Interest to Bankers," before the Clearfield County Bankers Association.

PANOFKY, H. A., meteorology, "Weather Forecasting According to Physical Laws" at the Carnegie Institute of Technology Sigma Xi banquet; also "Atmospheric Turbulence" at a colloquium.

STAFFORD, E. E., Student Affairs Research, "Evaluation and Misvaluation of Tests" before the Moon Twp. elementary and secondary school teachers.

WISLICENUS, F. F., Garfield Thomas Water Tunnel, "Engineering Education," before the Susquehanna section, American Society of Mechanical Engineers.

Elected and Appointed

ANDREWS, FRANCES M., music education, appointed editorial associate of the Journal of Research in Music Education.

BOWMAN, J. D., industrial engineering, named vice president of the Society for the Advancement of Management, Central Pennsylvania chapter, and to the Board of Directors of the Society.

HOWELL, B. F., JR., geophysics and geochemistry, elected first vice president of the Seismological Society of America.

JOHN, M. E., agricultural economics and rural sociology, appointed to a U.S. Department of Agriculture Committee on Agricultural Science.

SHUMAN, E. C., engineering research, elected vice chairman of Committee C-19, Structural Sandwich Constructions, American Society for Testing Materials.

WINTER, W. P., industrial engineering, appointed chairman of the International Education session, American Foundrymen's Society convention at Detroit.

WOOD, MERRILL, zoology, elected president, Eastern Bird Banding Association.

faculty BULLETIN

Vol. 49, No. 43 May 25, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Award winner

Clifford B. Holt, Jr., professor of electrical engineering and a member of the faculty since 1931, was awarded the first annual Advisers Award of the College of Engineering and Architecture at Honors Day ceremonies Tuesday in Schwab Auditorium.

The Award, which will consist of a certificate and a minimum of \$200 each year, was established by the Pennsylvania State University Engineering Association to recognize members of the faculty who perform outstanding service as an adviser of undergraduate students.

Holt received his bachelor of science degree at the University of Missouri in 1929 and attended the University of Pittsburgh for two years of graduate work. He received the master of science degree in 1938 at Penn State. He was employed by the Westinghouse Electric Co. in Pittsburgh and Newark, N. J., for two years after graduation and by the Sonotone Corporation for several months before joining the faculty at Penn State. He was named professor of electrical engineering in 1960.

Exhibition

An exhibition of a hundred prints by contemporary Dutch artists started today in the HUB gallery and will continue until June 28. Works of 29 leading Dutch artists will be featured in the display, which is part of a series of International Exchange Print exhibitions being shown in municipal museums and university galleries throughout the United States.

Commencement

Approximately 2,500 degrees will be granted at Commencement Exercises Saturday, June 9. Weather permitting, the ceremony will be held at Beaver Stadium at 10:30 a.m.

In case of inclement weather, the exercises will be held in Recreation Building according to the following schedule:

10:30 a.m. — Colleges of Engineering and Architecture and of Mineral Industries; also associate degrees.

1:30 p.m. — Colleges of Agriculture, Education, Home Economics, and Physical Education and Athletics.

3:30 p.m. — Colleges of Business Administration, Chemistry and Physics, and the Liberal Arts.

Bus service will be available for faculty members from the HUB to the Stadium starting at 9:30 a.m.

Election

Election of University trustees by delegates of agricultural and industrial societies of the Commonwealth will take place Wednesday, June 6 at 12 noon in the Hetzel Union Building. Six trustees are elected by representatives of county agricultural societies and six by county industrial societies.

University faculty and staff members are reminded that they may not take part in these elections, as delegates or proxies, according to the by-laws of the Corporation.

CALENDAR

Friday, June 1

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Edward Eisner, technical staff, Bell Telephone Research Laboratories, Murray Hill, N. J., on "Crystalline Whiskers."

Sunday, June 3

Protestant Service of Worship, 9 a.m., The Chapel. The Rev. P. Barrett Rudd.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Baccalaureate Service, with President Eric A. Walker, on "Science: A Faith in University."

Special Glee Club performance, 3 p.m., Schwab Auditorium (doors close at 2:45 p.m.) for television filming.

Monday, June 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. J. R. Rackley, vice president for resident instruction.

Tuesday, June 5

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Wednesday, June 6

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Lawrence Chao, on "Indexing Studies in Percussion Drilling."

Friday, June 8

Spring Term Classes end, 9:55 p.m.

NEWS IN BRIEF

► **GLEE CLUB:** A special program by the Penn State Glee Club Sunday, June 3, at 3 p.m. in Schwab Auditorium, will be recorded on videotape for release to television stations later. The public is invited. Doors will close promptly at 2:45 p.m.

► **ENGINEERING:** Two mechanical engineering faculty members, John R. Zimmerman and Roger W. Schiller, have been selected to attend a National Science Foundation Summer Institute of Kinematics of Mechanisms at Illinois Institute of Technology, June 25 to Aug. 17.

► **EVENING:** Pennsylvania's lieutenant governor, John Morgan Davis, will be the principal speaker at graduation exercises for the Ogontz Evening School June 10. Sixty students will receive certificates or diplomas for completion of courses varying in length from 2 to 5 years.

► **WARNING:** The Security Division of the University suggests that faculty and staff members be especially careful about such valuable property as wallets, watches, etc., in not leaving them in exposed places to serve as an invitation to thievery. William C. Pelton, head of the division, points out that there are many visitors to the campus at this time of year, a few of them undesirables who will take advantage of the easy opportunities for stealing.

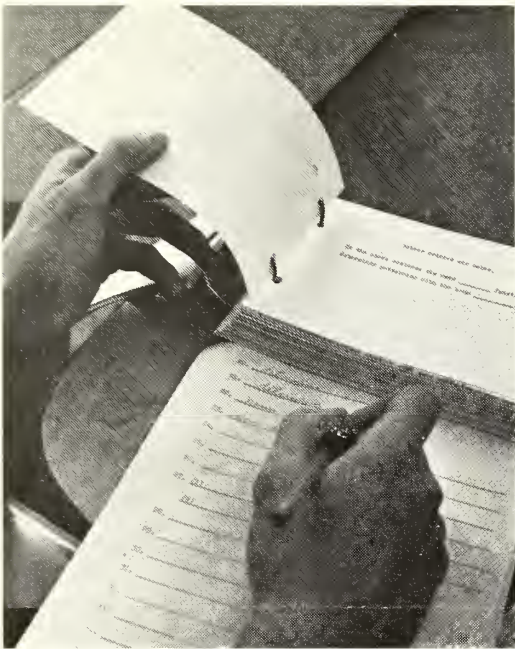
► **SENATE:** The University Senate will meet Tuesday, June 5, at 3:55 p.m., in Room 121 Sparks.

► **AGRICULTURE:** About 20 members of the Senate and House Agriculture Committees of the Pennsylvania Legislature will be guests of the University June 5 and 6, to visit agronomy facilities at Old Fort and the horticulture research farm at Pine Grove Mills as well as to attend the election of Board of Trustee members by agricultural and industrial societies.

► **HORTICULTURE:** Dr. C. Marshall Ritter, associate professor of pomology, is one of six American horticulturists invited to speak at a meeting of horticultural technicians, sponsored by the Inter-American Institute of Science Agriculture in Guatemala. At the meetings, which began this week, he will give a series of nine lectures on cultural factors connected with orchards.

► **TRANSLATED:** The textbook, "Introduction to Geophysics," by Dr. Benjamin F. Howell, Jr., professor of geophysics and head of the department of geophysics and geochemistry, has been issued in Spanish translation by Ediciones Omega, of Barcelona.

Programmed learning research



Programmed learning, as exemplified here in one of its simplest forms, emphasizes the student's participation in his own learning process.

Teaching machines have attracted much attention as a learning aid. The University's research on Programmed Learning included teaching machines in comparison with several other methods in English and math studies.



Two of the persons in the Research in English program were Ann Funk and Dr. Agnes McElwee.

AS pressure continues to mount to increase enrollments and enlarge classes, the "Mark Hopkins on one end of the log" picture of education seems to fade further into the background.

Educators are searching in many directions to retain the best features of the Mark Hopkins picture while solving the enrollment crush, recognizing that good teachers are scarce under the best circumstances.

Education has taken several steps to extend the usefulness of the competent teacher without adding to his burdens or detracting from his skills. "Programmed learning" is one of the attempts.

Known by a variety of names (auto-instruction, self-teaching, or teaching machine learning), programmed learning is of relatively recent origin, although it is based on Socratic methods and on Pavlovian research. Bechterev, Thorndike, and Guthrie contributed, if only indirectly, to the development, as did many others who have added to the still relatively poor understanding of the learning process.

In the early 'twenties, Dr. Sidney Pressey, at Ohio State, experimented with devices which were designed for simultaneous "teaching and testing," but it has been the recent work of Dr. B. F. Skinner, at Harvard, which has stimulated the educational world into looking more closely at programmed learning and teaching machines.

Good programmed-learning methods approach the teaching process in the same way a good teacher does. It starts with an analysis of the subject matter, in order to present it in small, logical, coherent steps. It requires a response at each step, and provides a reinforcement of the learning by telling a student whether his response is correct. It determines beforehand where the student is to go and at what pace, and it determines whether the student has reached his learning goals. Most significantly it involves the student actively in every step.

In most formal educational situations, says Dr. C. R. Carpenter, director of the Division of Academic Research and Services, a good job is done of motivating the learner and aiding his perception, but a much less effective job is done of eliciting necessary responses from every student and reinforcing those responses, or of "rewarding" him for the correct response.

"In an average classroom we may call on a very few students to respond to our questions," Dr. Carpenter explains, "and most often it is the better students.

"For responses to be effective aids to learning, Skinner indicated, all students must make them, and make them frequently. For rewards (reinforcement) to be effective, they must be frequent and immediate, not delayed a week or until the end of the course when grades are given out."

Programmed learning, by whatever means it is provided, attempts to involve the student in every step — perceiving, discriminating, responding, rewarding.

The means of presenting programmed instructional materials are many — some very simple, others complex. They may take the form of a deck of simple 3 by 5 cards, which

the student flips over at a pace he chooses, to elaborate television or film productions which are set up with a predetermined pacing, for use in groups. They may be programmed books, filmstrips, or "teaching machines," the number of which currently on the market is nearly a hundred.

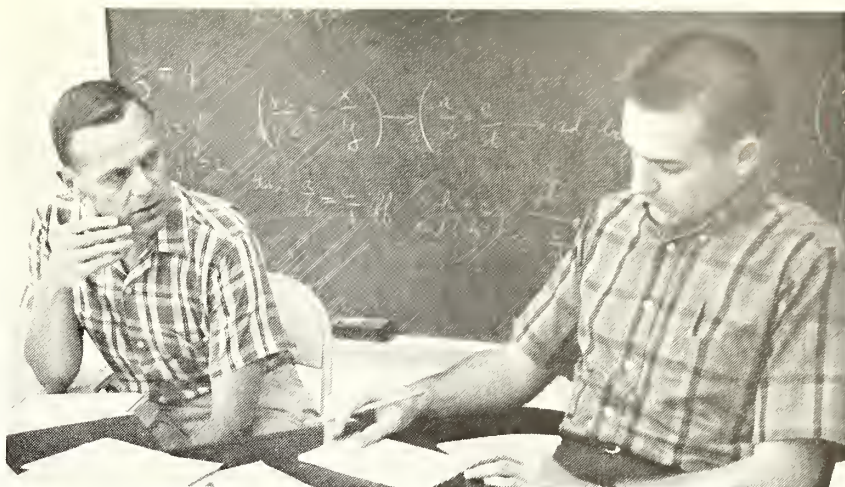
But the essential element, regardless of the mechanics involved, is that the instructional material is "programmed", — i.e., structured and sequenced — the student is active, he learns whether he is correct or not at the moment he makes his decision or judgment, and he is reinforced positively or negatively.

Although significant research has contributed to the development of programmed learning and the mechanical means of providing it, there is still much to be learned, says Dr. Carpenter. Penn State first had a hand in this research 15 years ago, with the Classroom Communicator, and has been active in many ways since. For the past two years, under a U. S. Office of Education grant, studies have been made with programmed learning, presented by means of a variety of media, in English and mathematics.

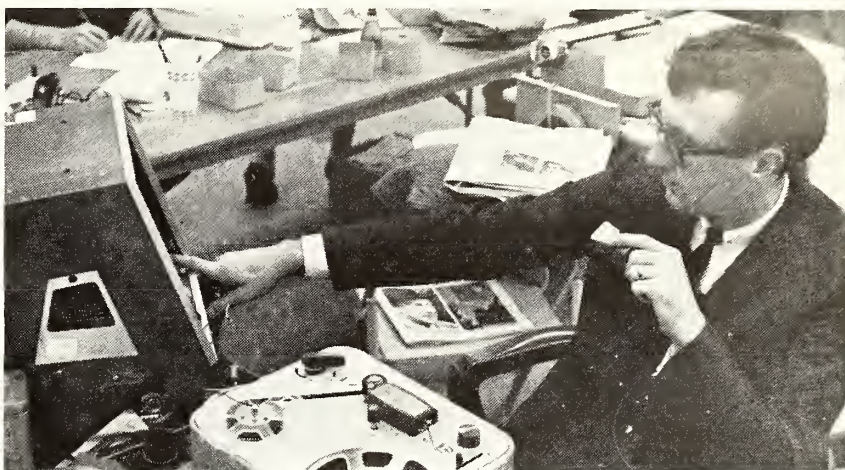
Some years ago, high schools in Pennsylvania were informed that English "0", a non-credit course for students deficient in English preparation, would be discontinued after the 1962 Fall Term. Since some otherwise excellent students might be refused the chance to obtain a college education without even an opportunity to make up their English deficiency, the department of English has been searching for ways to give them that opportunity. A carefully programmed course covering the same ground as English "0" was considered by Dr. Henry W. Sams, head of the English department, two years ago. Dr. Agnes R. McElvee, professor of English composition; Ann Funk, research assistant in DARS, and James P. Stewart, associate professor of English composition, prepared a program and carried on the research.

In mathematics, Ralph Heimer, DARS research associate and former member of the mathematics department, began preparation of a program for Math 2, a basic algebra course taken by some students in agriculture, education, business, and the liberal arts. He was later joined by Frank Kocher, instructor in math, to complete the programming of the course, which covers 30 topics ranging from numbers and sets to quadratic equations, and is the type of course which is generally considered appropriate for programmed instruction.

Initial testing of the programs was done in the 1961 Spring Semester, using 5 by 8 cards arranged in the form of a programmed textbook. The early steps indicated the desirability of rewriting parts of the programs, incorporating features which developed as the study progressed — a change in order of presentation, simplification here or making more difficult there,



Frank Kocher and Ralph Heimer developed the program in mathematics.



During the past two years various forms of presenting Programmed Learning have been investigated, including the use of film strips. Timing the film strip and voice recordings, by graduate assistant Frank Simon, was important part of pacing study.

altering the pace, etc. The programs were then adapted for presentation by four methods: face-to-face instruction, filmstrips, teaching machines, and programmed books.

Subsequently, presentation of programmed material by television was undertaken as a comparison method and during the current term this program is being carried on intensively in mathematics.

Some questions remain unanswered, but with the data so far available, it appears feasible to obtain effective teaching with programmed material in both courses, using any of the presentation media tested; face-to-face instruction, in fact, has been shown to be less effective in some comparisons.

"We are presently testing pacing of programmed materials," Dr. Carpenter explains. "It has generally been assumed that permitting the student to pace himself was one of the principal advantages of teaching machines and similar methods, but is it not possible that the stimulus of group in-

struction with predetermined pacing is better? Or will students working in pairs do the best work?"

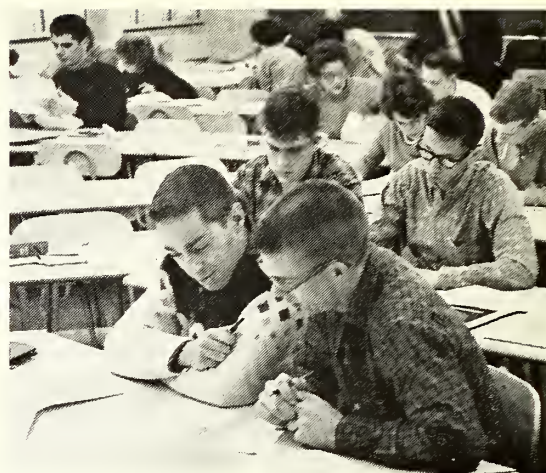
"We aren't satisfied that we know the best television production techniques for teaching programmed material at this stage. Should the teacher appear on the screen from time to time? Should more opportunity for questioning be given? Should periodic summaries be used? How should 'visuals' be employed? Are all courses good subjects for programmed instruction via television?"

Dr. Sams foresees usefulness of programmed instruction of courses such as English "0" and perhaps some high school courses, but, basically, programmed instruction has the shortcoming that it does not require the student to write themes and essays, a necessary part of training in many English courses.

"Although there are many elements in the English program in which direct personal exchange between teacher and student is essential," Dr. Sams says, "programmed learning is highly



Planning the research program in English were Dr. C. R. Carpenter, DARS head; Dr. Henry Sams, head of English; and Dr. Agnes McElwee.



Current research on Programmed Learning includes a study of the value of students working in pairs, as opposed to working in class groups or singly.

adaptable to others and may prove extremely useful."

Programmed learning seems to fit skill subjects such as mathematics much better than humanistic courses, Kocher feels, except that in the learning of the "language" of the humanistic courses it may have desirable applications.

Heimer and Kocher, with John Lottes, former DARS research associate, are preparing programmed materials for a book on mathematics. Their feeling is that programming may not be as useful in more advanced courses as in the elementary level, but the compelling reasons for using programming do not obtain as readily for advanced courses where individual attention is usually available and where there are few steps in the learning process which have only "one answer."

What is the teacher's role in this kind of educational process?

"In the preparation of the programmed material, the teacher has the major and sometimes only role," says Dr.

Carpenter. "After that must come a great amount of testing of the programmed materials, and the teacher again plays a major role. I think most courses will be subject to continual improvement and even if a teacher uses a program prepared by someone else, just as he now uses textbooks prepared by others, the adaptation will require his attention to obtain full benefit for his own students.

"One of the usual advantages of programmed instruction is the relief from clerical work for the teacher and consequent freedom to attend to more meaningful work. In many college courses a portion of the material might be learned with programming methods and face-to-face instruction used for other segments. If the teacher can spend more preparation time on his part of the course, and especially in working with exceptional students, his work should be more effective."

Programmed instruction may permit the student a great amount of leeway in progressing on his own. In a typical class period, some students will complete the daily program in

much less time than others; the "free" time could conceivably be used for advanced or extra work. In any case, although the program itself is paced as it is thought to be (or which subsequent research proves to be) commensurate with the general class abilities, there is no need for the quicker learners to be limited by the deficiencies of the poorer students.

Says Dr. Carpenter about the research now underway: "The results to date are instructive and encouraging. We seem to be on the verge of having a means of providing students opportunities to learn the mathematics and English required by our Educational Policy Statements. This apparently can be done with minimum demands on regular faculty time. . . . We can foresee extensive applications of programmed instruction on the college level.

"There is the possibility that within the year Penn State will be involved in several of the most advanced research and development programs in the nation on the problems of complex meaningful human learning."

faculty BULLETIN

Vol. 49, No. 44 June 1, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T. I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Saturday, June 9

Commencement Exercises, 10:30 a.m., Beaver Stadium. In case of rain, Recreation Building, head, department of engineering mechanics, chairman. Continues through June 15. Other Seminars, June 17-22, on "Dislocations and Mechanical Properties" and June 24-29, "Theoretical and Experimental Continuum Mechanics."

College of Home Economics Coffee Hour for graduates and parents, 8:30 a.m., Home Economics Living Center.

Sunday, June 10

Engineering Mechanics Seminar, "Mechanical Properties and Design," Dr. Joseph Marin, head, department of engineering mechanics, chairman. Continues through June 15. Other Seminars, June 17-22, on "Dislocations and Mechanical Properties" and June 24-29, "Theoretical and Experimental Continuum Mechanics."

Friday, June 15

Alumni Reunion activities begin. Continue Saturday, June 16.

Monday, June 18

Summer Term Orientation program.

Tuesday, June 19

Mateer Playhouse summer program begins. "The 49th Cousin," by Florence Lowe and Caroline Francke. Family comedy. Continues through Saturday, June 23.

Wednesday, June 20

Summer Term classes begin, 8 a.m. End August 29, 9:55 p.m.

Tuesday, June 26

Mateer Playhouse production of "Period of Adjustment," by Tennessee Williams, two week run.

Friday, June 29

Summer Artists Series program by Andrew Heath, pianist, 8:30 p.m., Schwab Auditorium.

Television listings

WFBG-TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Mateer season begins June 19

HEADED by veteran actors Leon B. Stevens and Esther Benson, a distinguished east will be featured at Mateer Playhouse (Standing Stone) this summer.

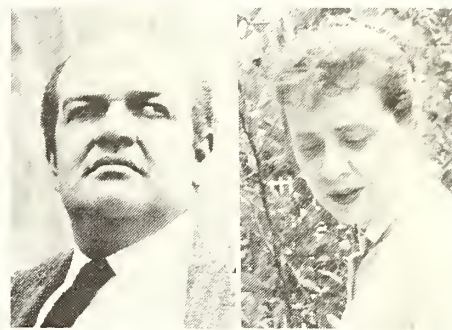
The season opens Tuesday, June 19, with a comedy, "The 49th Cousin," by Florence Lowe and Caroline Francke.

Both Stevens and Miss Benson have appeared at Mateer Playhouse in past seasons. Stevens appeared in such productions as "Desire Under the Elms," "Cat on a Hot Tin Roof," and "Barretts of Wimpole Street" during the 1958 and 1959 seasons. He portrayed the Matthew Brady role in "Inherit the Wind" in both the Broadway and national casts and has appeared in off-Broadway shows such as "Misalliance" and "The Geranium Hat" and in many television plays.

Miss Benson appeared at Mateer during the 1958, 1959, and 1960 seasons, playing leading roles in "Streetcar Named Desire," "Three Men on a Horse," and "Major Barbara." She has appeared on television in such shows as Studio One, You Are There, and Suspense, and in stock and repertory in New York, Cape Cod, and the Hedgerow Theatre at Moylan, Pa.

The Mateer Company will also include David Frank and Lydia Bruce, both of whom have played previously here, and Kay Frey and Max Gulaek, newcomers. Frank, who recently completed a six-month tour of the Far East and Europe as a member of the "Broadway - U. S. A." review, was at Mateer in 1958 and 1960. Miss Bruce has made summer and winter stock appearances, played the lead in the off-Broadway show "House of Pierrot," has appeared on television and played in radio's "Five Star Matinee Theatre," and other dramas. She was here in 1959.

Kay Frey is a recent graduate of the American Academy of Dramatic Arts and Gulaek has had winter and sum-



Leon Stevens

Esther Benson

mer stock lead and supporting roles and has appeared in several off-Broadway productions and in television shows.

The complete season is as follows:

The 49th Cousin, by Florence Lowe and Caroline Francke, June 19-23.

Period of Adjustment, by Tennessee Williams, June 26 to July 7.

Tiger at the Gates, by Christopher Fry, July 10-14.

A Thurbur Carnival, by James Thurber, July 17-28.

All the King's Men, by Robert Penn Warren, July 31 to Aug. 4.

Send Me No Flowers, by Norman Barasch and Carroll Moore, Aug. 7-18.

Blood, Sweat, and Stanley Poole, by James and William Goldman, Aug. 21-25.

Season tickets will remain on sale until June 23. Brochures and information concerning the season and tickets are available at the Department of Theatre Arts, 202 Schwab, UN 5-7586.

Feinberg gift

Four proofsheets and offprints of works by and relating to the poet Walt Whitman have been presented to Pattee Library by Charles Feinberg, Detroit businessman and noted collector of Whitman books and manuscripts.

The gift was made at the time of Feinberg's talk before the English Colloquium May 16 at the Nittany Lion Inn.

The four items, handsomely cased, are:

1. Proof sheet of "Francis at Navasink," from "Sands at Seventy," pp 23-24 of *November Boughs*, Philadelphia, David McKay, 1888.

2. Proof sheet, one page, preface to

William Douglas O'Connor's *Three Tales*, Houghton, Mifflin, and Co. 1892.

3. Rough abstract and condensation of Sarrazin's "Walt Whitman" in *La Nouvelle Revue*, May 1, 1888, by R.M.B., of Canada.

4. A one-page printed piece by R. M. Bucke, "An impromptu criticism on the 900 page volume, 'The Complete Poems and Prose of Walt Whitman'" first issued in December, 1888, and printed for Whitman to distribute to a few friends.

Feinberg is director of the Friends of the Detroit Public Library, president of the Feinberg Foundation, and co-editor of *The Walt Whitman Review*. He is the holder of the U.S. Information Agency Certificate of Merit.

NEWS IN BRIEF

► **COFFEE:** Faculty members of the College of Home Economics will honor June graduates and their families at a coffee hour Saturday, June 9, from 8:30 to 9:30 a.m. in the Home Economics Living Center.

► **FRENCH:** Dr. Simon Belasco, associate professor of Romance languages and director of the Academic Year French Institute, will head a team of linguistics and pattern practice specialists in an NDEA-sponsored French Institute to be conducted by Emory University at Besancon, France, June 23 to Aug. 27. Claude and Josette Caujolle, members of the Penn State Institute, will serve as pattern practice specialists for the Besancon institute.

► **COMMENCEMENT:** Faculty and staff members driving to Commencement Exercises Saturday, if held at Beaver Stadium, are advised that the main routes to the Stadium will be via Park Ave. and University Road, both of which will be one-way toward the Stadium from 9 a.m. to 10:30 a.m. and away from the Stadium after the ceremonies until traffic is again normal. Curtin Road will be closed to car traffic from Shortlidge Road eastward. Ample parking will be available at the Stadium. Faculty members who wish to avail themselves of the service may take a bus to the Stadium from the HUB, with service beginning at 9:30 a.m.

► **POULTRY:** The department of poultry husbandry has been redesignated the department of poultry science by the Board of Trustees to more adequately characterize the work of the department under modern conditions.

► **EXCHANGE:** George J. Demko, doctor of philosophy candidate in geography, has been chosen as an exchange participant to the Soviet Union for the 1962-63 year. He will do research at Moscow University on the Russian migration into Kazakhstan in the late Tsarist and early Soviet periods. He is one of thirty participants in the program.

► **PEACE CORPS:** Fifty seven Peace Corps trainees completed their ten-week program this week and were honored at a dinner last evening (Thursday) at the HUB. Those chosen for overseas assignments will depart later this month for the Philippine Islands. The program at the University concludes with this group; in all, over 300 were trained here and 291 are now active on the islands.

In medical technology

University, hospital cooperate

A COOPERATIVE PROGRAM has been established between the University and the William H. Singer Memorial Research Laboratory of the Allegheny General Hospital, Pittsburgh, to enable medical technology students to qualify for registry in a four-year program.

At present, those wishing to qualify for registry as medical technologists under the standards of the American Society of Clinical Pathologists must take a year of internship after completing the four-year program at the University.

Under the new arrangement, the fourth year of classes and internship will be completed at the Hospital.

Details of the plan were announced by President Walker and John R. McCune, Jr., chairman of the Board of Managers of the Laboratory, which is directed by Dr. Robert C. Grauer. Staff members of the Laboratory will teach the courses.

Upon satisfactory completion of the program of the Hospital, the students will qualify for their bachelor of science degree at the University. Ten students completing their junior year this week will constitute the first class under the new program.

Other students who are registered in the medical technology program but who plan to enter related fields such as public health, medical research, and industrial laboratories, may continue their senior year at Penn State in a program that has been designated health technology.

Transportation

The service provided by the Transportation Division in the past — arranging schedules and reservations for train and bus travel and for hotel accommodations — has been discontinued and faculty and staff members who made use of the service in the past will now obtain information and make reservations directly with the railroad or bus system or the hotel.

Effective July 1, the Transportation Division will be incorporated with the Fleet Operations Division and will cease to provide the scheduling and reservation service.

Rail information and reservations may be obtained by calling the Pennsylvania Railroad offices in Bellefonte (EL 5-4735), Altoona (Windsor 4-8137), or Lewistown (248-4467).

Bus information and reservations may be obtained by calling ADams 7-4181.

Allegheny Air Lines has recently been assigned a State College telephone number, ADams 8-8414.

No increase

No increase in tuition or in room and board charges is planned for the Fall Term, President Walker announced this week. The Board of Trustees approved the maintenance of charges now in effect at its meeting last weekend.

Tuition charges for a full-time program (eight or more credits) now amount to \$175 for Pennsylvanians and \$350 for out-of-State students. Room and board charges range from \$245 to \$280 per term.

Libraries

Reference libraries in Allegheny (North Halls) and Jefferson (East Halls) Houses have been formally presented to the University.

Mrs. William D. Stevenson, of Pittsburgh, presented the library to Allegheny House as a memorial to her husband, a Pittsburgh engineer and civil engineering graduate in 1899, who died in 1959.

The presentation of the library to Jefferson House was made in behalf of the people of Jefferson County and the Jefferson County Pomona Grange, which headed the program to obtain the funds for the project.

Engineering

The second in a series of engineering colloquies on interdisciplinary topics will begin Monday, June 11, with Dr. Donald L. Katz, chairman of the department of chemical and metallurgical engineering at the University of Michigan, as featured speaker.

Currently directing a nationwide research project on the use of computers in engineering education supported by a Ford Foundation grant, Dr. Katz will be the banquet speaker Monday at 6:30 p.m. in the HUB, on the subject, "The Place of Computers in Engineering Education."

About 40 participants — two from each of the departments in the College and one from each of the Commonwealth Campuses — will take part in the Colloquy, which will continue until Thursday. A similar colloquy was held in March and others are planned for the future.

PERSONNEL MATTERS



Dr. Arthur F. Davis, professor of physical education, will retire July 1 after serving on the University faculty for 28 years. A native of Portsmouth, N. H., he was graduated from the University of New Hampshire in

1920. He taught in schools in Maine, New York, Pennsylvania and Michigan from 1920 to 1930, and from 1930 to 1933 at Northern Michigan College, Marquette, Mich. He was named to the Penn State faculty in 1934 to head the health education program. He has held many positions in community and state organizations concerned with health, such as the Penna. Heart Association. In 1955, he received the Benjamin Rush Award given by the Centre County Medical Society for outstanding service to the health of the community; in 1956 was given the Penna. Heart Association medal for distinguished service and leadership in advancing the heart program; and in 1960 was given a medal by the same organization for outstanding accomplishment in serving humanity through the heart cause.

Norman H. Eberly, associate professor of agricultural extension and extension news editor, will retire July 1. He joined the staff in 1944 after many years in newspaper work with the Harrisburg Patriot and Carlisle Sentinel. He is a graduate of Shippensburg State College and Dickinson.

Dr. Charles Perelman, professor at the Free University of Brussels, will be Distinguished Visiting Professor of Philosophy and Speech for the Fall Term. An authority on the history and theory of rhetoric and on the relations between rhetoric and philosophy, Dr. Perelman has also written extensively on value theory. He has recently been awarded the Prix Francqui, most important award available to Belgians. He will conduct a seminar on the general theory of argumentation.

Alan B. Draper, assistant professor of industrial engineering, has been awarded a Ford Foundation Forgivable Loan for the 1962-63 academic year. He will be on leave to undertake work for his doctorate at the University of Illinois.

Dr. Roy C. Buck, associate professor of agricultural economics and rural sociology, has been named associate director of the Center for Continuing Liberal Education and professor of social science and rural sociology. A

member of the faculty since 1949, he is a 1942 graduate of Penn State, obtained his master's degree in 1947, and was granted the doctor of philosophy degree in rural sociology by the University of Minnesota. He has conducted research in rural youth adjustments, sociology of rural school district reorganization, and community organization.

Dr. Gordon C. Godby, director of the division of University Extension, University of Delaware, has been appointed assistant dean for continuing education in the College of Education and professor of education, effective July 1. He is a University of Kentucky graduate with a master of arts degree in sociology. His doctor of education degree was conferred by Harvard University. He has held his present position since 1951.

Mrs. William G. Mather, instructor in mathematics, has been chosen to attend a National Science Foundation Summer Institute for the development of mathematics program for grade school teachers. The institute will be held at the University of Arizona Aug. 5-24.

Clarence E. Bullinger, professor emeritus of industrial engineering, will retire for the third time May 31. He is currently in the department of industrial engineering at Iowa State College and has reached the compulsory retirement age of 70. He was a member of the Penn State faculty for 33 years and head of the department for 25 years before his retirement in 1955. He served on Formosa, as a member of the faculty of Purdue University, on leaving here.

Dr. John F. Corso, professor of psychology, has resigned, effective Aug. 31, to become director of the department of psychology at the University of St. Louis. He has been a member of the faculty since 1952.



CHANGES IN STATUS

The following changes in status of faculty members were reported to the Board of Trustees last weekend. They are all effective July 1.

Agriculture

Edwin L. Cooper, associate professor to professor of zoology.
Clarence E. Trotter, associate professor to professor of marketing.

Business Administration

Richard M. Colwell, associate professor of accounting to professor.
Max D. Richards, associate professor of management to professor.

Engineering and Architecture

Donald E. Hardenbergh, associate professor of engineering mechanics to professor.
Ling-Wen Hu, associate professor of engineering mechanics to professor.

Home Economics

Alberta Siegel, associate professor of child development to professor.

The Liberal Arts

Simon Belasco, associate professor of Romance languages to professor.
Hugh H. Chapman, Jr., associate professor of Romance languages to professor.
Ram P. Kanwal, associate professor of mathematics to professor.
Hugo Ribeiro, associate professor of mathematics to professor.

Mineral Industries

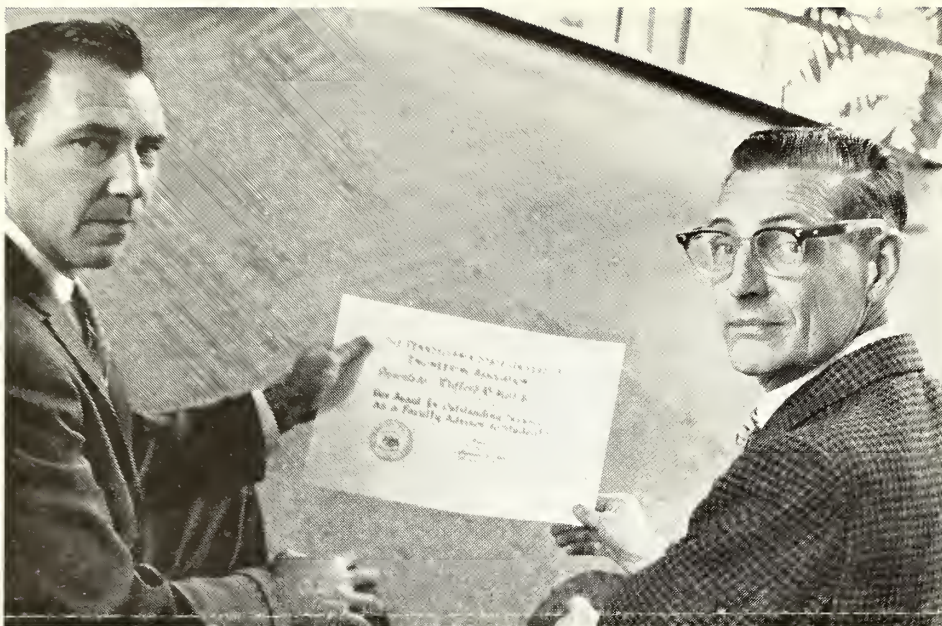
Peter H. Given, associate professor of fuel technology to professor.
Phyllis R. Griess, associate professor of geography to professor.
Peirce F. Lewis, assistant professor of geography to professor.
Arnulf I. Muan, associate professor of metallurgy to professor.
John J. Schanz, Jr., associate professor of mineral economics to professor.
C. Drew Stahl, associate professor of petroleum and natural gas engineering to professor.

Physical Education and Athletics

Martha A. Adams, associate professor of physical education to professor.
Allen R. Gray, associate professor of physical education to professor.

Others

Jefferson D. Ashby, assistant professor of psychology and assistant director of the Division of Counseling to assistant professor of psychology and associate director of DOC.
Lester S. Hamel, research assistant to research assistant and assistant director of Student Affairs Research.



Engineers Adviser Award

ENGINEERING ADVISERS AWARD was presented recently to Clifford B. Holt, Jr., professor of electrical engineering, right, by William O. Baker, left, president of the Pennsylvania State University Engineering Association, which established the award this year to recognize outstanding service by a member of the College of Engineering and Architecture faculty as adviser to undergraduate students. Holt has been a member of the faculty since 1931, has counselled hundreds of electrical engineering students.

SCHEDULING

Departments, colleges, and other organizations planning student and faculty activities for the next year should advise the office of the coordinator of student activities, George L. Donovan, to effect the best program of activities. In some cases he will be able to assist in selection of dates to avoid conflicts with other events. His telephone is UN 5-7973.

Library hours

The following schedule will be observed by Pattee Library during the Summer Term:

June 9-19 — Sunday closed; Monday-Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to noon.

June 20-Aug. 29 — Sunday, 2 p.m. to 10 p.m.; Monday-Friday, 7:50 a.m. to 10 p.m. (closed July 4); Saturday, 7:50 a.m. to 5 p.m.

Aug. 30-Sept. 22 — Sunday, closed; Monday-Friday, 8 a.m. to 5 p.m.; (closed Sept. 3); Saturday, 8 a.m. to 12 noon.

Sept. 24 and following — Sunday, 2 p.m.-10 p.m.; Monday-Friday, 7:50 a.m. to 10 p.m.; Saturday, 7:50 a.m. to 5 p.m.

Books

Robert T. Oliver, Harold P. Zelko, and Paul D. Holtzman, all of the speech department, the textbook, "Communicative Speech," published by Holt, Rinehart, and Winston, N.Y. The third edition, completely revised over previous editions in 1949 and 1955. Adopted by almost 100 colleges and universities, the book orients the reader to the oral communication responsibilities in all walks of life to the specific process of presenting a public speech.

ENVELOPES

From time to time some campus offices accumulate quantities of interdepartmental envelopes, either of small or large size, and have no immediate use for them. Other offices, on the other hand, use many more than they receive.

To effect a redistribution of these envelopes, the Campus Mail Service is now prepared to act as a clearing house and will pick up these unwanted pieces at the time of regular mail delivery, if they are tied or bundled and identified so they will not be confused with mail.

Offices needing a supply of these envelopes may call UN 5-S311 and they will be delivered.

Dedication

The 1962 La Vie, Penn State class annual, has been dedicated to President Walker by the Senior Class, "in recognition of his many accomplishments during his first five years as president."

faculty BULLETIN

Vol. 49, No. 45

June 8, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. Tel.: UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, June 15

Alumni Institute, panel discussion, 10:30 a.m. on "The Battle for Men's Minds," HUB Assembly Room. Institute lectures by faculty members, in Osmond Building at 2 p.m. and 3:30 p.m.

Dedication of Stone Valley Recreation Area, 5:30 p.m. at Civil Engineering Camp.

Saturday, June 16

College of Engineering and Architecture coffee hour for alumni, 10 a.m., Hammond.

All-Class Luncheon, 12:30 p.m., Recreation Building. Parade to Schwab Auditorium, 2 p.m. Presentation of Distinguished Alumni and Woman of the Year Awards and the President's State of the University address, 2:30 p.m., Schwab Auditorium.

Sunday, June 17

Chapel Service, 9 a.m., Eisenhower Chapel. Dr. Luther H. Harshbarger.

Tuesday, June 19

Mateer Playhouse opening night, "The 49th Cousin," by Florence Lowe and Caroline Franck, 8:40 p.m., Standing Stone. Continues through Saturday, June 23.

Summer Term Registration.

Wednesday, June 20

Summer Term classes begin, 8 a.m.

Friday, June 22

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering D.

Interlandia

Interlandia Folk Dancers will continue to hold dances during the Summer Term, every Friday evening beginning June 22 and continuing to August 24.

All of the dances will be taught and beginners are welcome and encouraged. Admission is free.

The dances will be held from 7:30 to 11 p.m. alternating between Room 302 Engineering D one week and the HUB ball room the next week. The first session will be June 22 in Eng. D.

Stoner, Klein, Meserole

Three faculty members honored

Dr. Richard G. Stoner, professor of physics, and Dr. Philip S. Klein, professor of American history, were honored at Commencement Exercises last weekend and Dr. Harrison T. Meserole, assistant professor of English will be honored Saturday afternoon at the Alumni Institute program.

The sixth faculty member to be so honored, Dr. Stoner was presented with the Superior Teaching Award last Saturday. The award consists of a plaque and a check for \$1,000 and was established in 1958 to recognize outstanding service, encourage superior teaching, and advance the cause of higher education generally.

Dr. Stoner has been a member of the faculty since 1948, when he came as assistant professor from Princeton, where he had served as assistant physicist with the National Defense Research Committee. Previously he was assistant in physics at Columbia University. A graduate of Princeton, where he was also granted master's and doctor's degrees, Dr. Stoner has been active in both teaching and research at Penn State, playing a major role in the planning of the physics curriculum and in the development of several undergraduate physics courses. His research has been concerned with shock waves in gases.



Klein

the faculty member who submits to the Penn State Press the book manuscript "which best exemplifies the highest standards of scholarship and creativity in its field, without limitation as to the breadth and narrowness of the subject matter and without regard to its popular appeal."

The book, which was published in March, was the product of more than 30 years research by Dr. Klein who, as a boy, played in the orchards of the Buchanan home, Wheatland, in Lancaster.

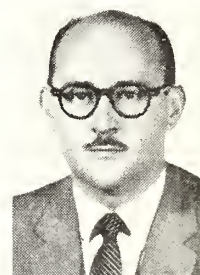


Stoner

A graduate of Franklin and Marshall College, he was assistant professor of history from 1938 to 1941, when he came to Penn State. He had three years of service as naval aviation training officer. Following the war he served with the Office of the Director of Naval History and as history officer on the staff of the Commander of the Western Sea Frontier. He returned to Penn State in 1946 and was head of the history department from 1953 to 1956. He is the author of five other books.

The award granted Dr. Klein honors the late Louis H. Bell, former director of public information and professor of journalism, who served as the first executive director of the Press from 1956 to 1958.

The first 1933 Class Award for Outstanding Contributions in the Field of Humanities will be given to Dr. Meserole Saturday. To be granted annually, the Award consists of \$300 and a plaque citing the recipient for "outstanding contributions in the field of the humanities."



Meserole

Dr. Meserole, member of the faculty since 1957, is nationally known for his work in bibliography and is chairman of the General Language and Literature Section of the Annual Bibliography of the Modern Language Association and editor of *Americana* for the "17th Century News" magazine. He is author of the book, "The Responsible Man: The Insights of the Humanities," and is working on the book "Seventeenth Century American Poetry." He has published many articles on American literature and bibliography in scholarly journals.

A graduate of Wilson College, Washington, D.C., Dr. Meserole was granted master's and doctor's degrees by the University of Maryland. He taught at Maryland and at the Silver Spring, Md., high school before coming to Penn State.

Senate Minutes

MEETING OF JUNE 5, 1962

The University Senate met at 3:55 p.m. on Tuesday, June 5, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the May 1 meeting were approved as printed in the Faculty Bulletin for May 11, 1962. One hundred sixty-four senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Ben Euwema (H. J. O'Brien), G. W. Harvey (R. J. Seammell), Jules Heller (G. S. Zoretich), Coleman Herpel (J. E. Pixton), M. W. Humphrey (E. B. Hale), K. W. Hylbert (A. M. Wellington), M. W. Isenberg (G. H. Albright), H. W. Johnstone, Jr. (D. H. Whittier), D. V. Josephson (P. G. Kenney), A. O. Lewis Jr. (H. J. Golatz), E. L. Mattil (Yar Chomicky), N. J. Palladino (A. H. Foderaro), O. A. Schmidt (R. A. Bartoo), Edna Sommerfield (Aurelia Adams), T. S. Spieer (D. R. Maneval), and G. M. Torkelson (H. D. Sher).

New Senators

A letter was read from Ossian MacKenzie that M. D. Richards would replace R. H. Waters as an elected senator for the 1962-65 term, and W. M. Hench would replace J. J. Kaufman for the year 1962-63, in the College of Business Administration.

A letter was read from A. W. VanderMeer that Yar Chomicky would replace Leon Gorlow as an elected senator in the College of Education for the Summer Term, 1962.

A letter was read from Ben Euwema that A. F. Buffington would fill the unexpired term of G. N. Raney for 1962-63.

A letter was read from D. V. Josephson, Chairman of the Committees on Committees, that Philip H. Cozadd and Susan E. Starbird had been appointed as student representatives on the Senate Committee on Calendar and Class Schedule for the balance of the 1961-62 year and for 1962-63. These appointments had had the approval of President Walker.

The following communication was received from Coleman Herpel, Director at the Ogontz Campus:

Since the establishment of the Commonwealth Campus system several of the Senate Regulations for Undergraduate Students have been rephrased to assign responsibilities for actions affecting a student to "his dean or the director of his Commonwealth Campus." Examples are found in Rules E-4, G-3, I-4, I-8, J-4, M-5, O-3, and P-17 among others.

Actions under Rule J-3, however, currently require "written approval of the student's dean." The rapid pace and short duration of the ten week term, however, create an administrative problem with requests to drop courses after the first ten calendar days of a term. It takes time to place a student's petition before his dean and to receive a reply from the dean. In addition the dean must usually rely upon the campus director for an evaluation of any extraordinary circumstances that may warrant a course drop.

Therefore, I respectfully request the Senate to modify Rule J-3, so that the second sentence reads:

A student may drop a course after the first ten calendar days of a term only upon written approval of his dean or the director of his Commonwealth Campus.

President Walker referred this communication to the Senate Committee on Rules.

REPORTS OF STANDING COMMITTEES

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A." This report contained two recommendations. He moved that Item I be adopted as follows:

That minimum requirements for admission to the College of Mineral Industries, now designated by Column C, page 17, of the 1962-1963 General Catalog, be changed to those given in Column E.

(Since Mineral Industries is the only College now using Column C, this column and the footnote pertaining to it can be dropped from the listing.)

The motion was seconded and passed.

Mr. Stoner then moved that Item II be adopted as follows:

That the Scholastic Aptitude Test of the College Entrance Examination Board be required of all applicants to baccalaureate degree programs, starting with the Fall Term, 1963.

The motion was seconded. After discussion by W. G. Mather and F. H. Cook, the motion was passed.

H. J. Read, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, presented the report which had been distributed with the agenda as Appendix "B" regarding a SEPARATE FINAL EXAMINATION PERIOD. The report contained the results of discussions and a survey of department heads regarding the soundness and feasibility of adding a final examination period to the 60 days of instruction in the present term, as reported by the Administrative Committee on Resident Education Procedures, and recommendations made by the Senate Committee on Calendar and Class Schedule. Mr. Read moved that Item I which contained recommendations to amend Sections C, F, and J of the Basic Calendar Policy as adopted by the Senate on June 1, 1961, be adopted as follows:

Item 1. — The Basic Calendar Policy adopted by the Senate on June 1, 1961, shall be amended as follows:

Section C — Change to read as follows: "That there shall be a minimum of six calendar days between the close of any final examination period and the first day of the succeeding term."

Section F — Change the title to read

"Orientation, Registration, and Final Examinations," and change the body of the Section to read as follows:

"That orientation, registration, and final-examination periods shall not be considered to be part of any regular term and that they shall be established by the University administration with such lengths and at such times as are necessary to accomplish their purposes."

Section J — Change to read as follows:

"That all formal examinations in any course other than final examinations scheduled in a regularly established final examination period shall be held during the regularly scheduled class periods or laboratory sessions of that course, except when the conditions detailed in Rule I-9 of the Senate Policies and Rules for Undergraduate Students are satisfied."

The motion was seconded. There was discussion by Messrs. Marin, Read, Lancaster, Stoner, Atwater, Montgomery, Kaufman, Davison, Freund, Mather, and Newman. Mr. Marin suggested that Section C be changed to include three additional days plus at least 2 days of classes. Mr. Lancaster moved to amend Section C to read as follows:

That there shall be a maximum number of days feasible between the close of any

final examination period and the first day of classes of the succeeding term.

The motion on the amendment was seconded. After comments by Miss Ayres and Mr. Read the motion was defeated. The motion on Item I was passed.

Mr. Read presented Item II which included recommendations to change Rule O-1 and reinstate O-8 of the Senate Policies and Rules for Undergraduate Students to take into account the final examination period. He stated that the proposed changes had been presented to the Senate Committee on Rules and moved adoption of the changes as follows:

Item II. — Adoption of a final examination period will require some changes in the "Senate Policies and Rules for Undergraduate Students." We recommend the following change and addition to these rules:

Rule O-1. — Change to read as follows:

"When a final examination is considered to be an integral part of a course, it may be given either during the regularly scheduled class meetings or during the final examination period at a time assigned by the University Scheduling Officer."

Reinstate Rule O-8 in the following version:

"Any student with two or more final examinations at the same time should file a request for a conflict examination at the time and place specified in advance by the University Scheduling Officer. Any student with three or more examinations on the same day may file a similar request, and conflict examinations will be arranged if feasible. If a student fails to file a request for a conflict examination within the time assigned for that purpose, he shall pay a charge of ten dollars (\$10) for the privilege of filing a late request for conflict examinations."

The motion was seconded and passed. The complete report is on file in the office of the secretary.

The President announced that the report of the SENATE COMMITTEE ON COMMITTEES, under the chairmanship of D. V. Josephson, which had had his approval, had been distributed at this meeting. The report is as follows:

COMMITTEE ON COMMITTEES

Senate Committees — 1962-63

ACADEMIC STANDARDS — Hayes, J. R., Chairman; Kniffin, F. W., Vice Chairman; Austin, Deborah; Broderick, C. B.; Campbell, W. P.; Conger, R. M.; Ford, D. H.; Pasto, J. K.; Reen, C. G.; Stahl, C. D.

ADMISSIONS — Goodwin, H. E., Chairman; Bradley, J. F., Vice Chairman; Dickerson, R. B.; Burck, E. J.; Decker, J. D.; Powers, W. H.; Riebel, L. Jeanne; Stoddart, C. W., Jr.; Willower, D. J.; Bernreuter, R. G., ex officio.

ATHLETICS — Wherry, R. H., Chairman; Perez, L. J., Vice Chairman; Hudson, G. R.; Keith, M. L.; Niebel, B. W.

CALENDAR & CLASS SCHEDULE — Read, H. J., Chairman; Nelson, G. K., Vice Chairman; Snyder, Helen; Wartik, Thomas; White, H. B.; Miller, J. E., ex officio; Cozadd, Philip H. (Student); Starbird, Susan E. (Student).

COMMITTEES — Josephson, D. V., Chairman; Noll, C. I., Vice Chairman; Bixby, P. W.; DeNovo, J. A.; Houghton, Dorothy; Perez, L. J.; Ridge, J. D.; Schrader, W. J.; Sykes, C. M.

CONTINUING EDUCATION POLICY—Reede, A. H., Chairman; John, M. E. Vice Chairman; Bosch, Gerald; Carney, A. S.; Fuqua, Mary; Hager, C. F.; Hoepner, Barbara; Jones, D. C.; Kuerr, H. W.; McCord, R. E.; Keller, E. L., ex officio; Larson, R. E., ex officio.

COURSES OF STUDY—Shelley, P. A., Chairman; Saylor, R. B., Vice Chairman; Ayres, Ruth W.; Dixon, J. A.; Free, G. J.; Griffiths, J. C.; Spieth, W. R.; Thompson, A. T.; Watrous, G. H., Jr.; Rackley, J. R., ex officio; Schilling, H. K., ex officio.

EDUCATIONAL POLICY—Schanz, J. J., Chairman; Murray, R. K., Vice Chairman; Brandow, G. E.; Cook, F. H.; Fenske, M. R.; Palladino, N. J.; Henderson, Grace; Sprague, H. B.; Thiel, G. N.; VanderMeer, A. W.; Rackley, J. R., ex officio.

FACULTY AFFAIRS—Pendered, N. C., Chairman; McClay, D. R., Vice Chairman; Adams, Martha; Colwell, R. M.; East, Marjorie; Hartman, H. L.; Hutchison, A. W.; Isenberg, M. W.; Smith, W. S.; Torkelson, G. M.

LIBRARY—Hosler, C. L., Chairman; Gates, Ruth, Vice Chairman; Dickson, H. E.; Durant, Della; Eiche, R. E.; Lancaster, O. E.; Maw, A. J. G.; Pollard, E. C.; Schaefer, C. J.; Schilling, H. K.; Williams, A. L.; McComb, R. W., ex officio; Osborn, E. F., ex officio; Rackley, J. R., ex officio.

MILITARY INSTRUCTION—Rayback, J. G., Chairman; Lloyd, W. A., Vice Chairman; Harvey, G. W.; Kjelgaard, W. L.; Miller, F. A.; Pashek, R. D.; Queer, E. R.; Thompson, S. E.; Wright, H. D.; Cain, W. J., ex officio; Glenn, H. R., ex officio; Richie, E. B., ex officio; Smith, R. E., ex officio.

RESEARCH POLICY—Waynick, A. H., Chairman; Matson, F. R., Vice Chairman; Britton, J. H.; Charmbury, H. B.; Lawther, J. D.; Mallette, M. F.; McAulay, J. D.; Montgomery, J. E.; Mueller, E. W.; Richards, M. D.; Osborn, E. F., ex officio.

RULES—Whisler, B. A., Chairman; Waters, R. H., Vice Chairman; Carnahan, F. L.; Lewis, A. O.; Bernreuter, R. G., ex officio.

SCHOLARSHIPS AND AWARDS—Durant, Della, Chairman; Tukey, L. D., Vice Chairman; Aspaturian, V. V.; Hunt, J. W.; Lethbridge, B. B.; Lovett, P. B.; Lowenberg, Miriam; Sommer, L. H.; Voss, B. E.

STUDENT AFFAIRS—Lattman, L. H., Chairman; Hall, F. T., Jr., Vice Chairman; Densmore, Barbara; Hylbert, K. W.; Ascah, R. G.; Gray, A. R.; Maloney, R. C.; Bernreuter, R. G., ex officio; Kniffin, F. W., ex officio; Wharton, Dean W., President, Undergraduate Student Government, ex officio; Somerville, Janis I., President, Association of Women Students, ex officio.

SUB-COMMITTEE (Student Affairs)

ACADEMIC HONESTY—Kinsloe, Helen, Chairman; Carnahan, F. L., Vice Chairman; Matson, Margaret; Macalady, Donald (Student); Baer, Barbara (Student).

ORGANIZATION CONTROL—O'Brien, H. J., Chairman; McKinley, D. H., Vice Chairman; Black, Alex; Allen, Judy (Student); Grinberg, Edwin (Student).

DISCIPLINE*—Ascah, R. G., Chairman; Walmer, J. D.

* Other members of committee as provided for under Article II, Sec. I, 0-3 of Senate By-Laws.

NOTE: All committees assume duties immediately following Commencement Day, June 9, 1962, (Article II, Sec. 3, Senate By-Laws)

D. V. Josephson, Chairman

(Minutes to be continued in next week's issue.)

PERSONNEL MATTERS

DR. ARTHUR W. HEILMAN, director of the Oklahoma University Reading Center, has been appointed director of the newly established Reading Center and professor of education, effective Aug. 1. He will assist in graduate and undergraduate reading courses in the College of Education and work with the Reading Improvement Laboratory. He is a Carthage College graduate and was granted master's and doctor's degrees by the University of Iowa.

DENIS STEVENS, internationally known musicologist, composer, critic, and conductor has been appointed Distinguished Visiting Professor of Music for the Fall, Winter, and Spring Terms. He has been professor of music at the Royal Academy of Music in London since 1960, has written four books, edited three major works, including Grove's Musical Dictionary. He has been consultant to the British Broadcasting Corp. and has served as visiting lecturer at a number of American universities.

DR. KURT SCHUETTE, visiting professor of mathematics at Eidgenossische Technische Hochschule, Zurich, Switzerland, has been appointed visiting professor of mathematics for the Fall, Winter, and Spring Terms. He has served as a meteorologist in Germany, taught mathematics, physics, and chemistry in Goettingen, and was professor of mathematics at Philipps-Universitat, Marburg, Germany. During the 1959-60 year he was a member of the Institute for Advanced Study at Princeton.

DR. FRIEDRICH KASCH, who has been distinguished visiting professor of mathematics, has been appointed a research professor of mathematics, effective Sept. 1. He was a professor at Heidelberg University from 1954 to 1961 and was previously research fellow at Goettingen University.

WILLIAM W. ULLERY, member of the faculty for 22 years will retire July 1 as associate professor of engineering graphics. A 1922 graduate, Ullery was captain of the baseball team in his senior year and played professional baseball and football following graduation. After working as a draftsman in Dayton, Ohio, he became football and baseball coach at Susquehanna University and Lebanon Valley College. He joined the Extension staff in 1940 and three years later was named to the engineering graphics faculty.

CHANGES IN STATUS

Changes in status for the following members of the faculty were announced recently:

To Associate Professor

Deborah S. Austin, English literature; Lester E. Casida, Jr., bacteriology; Frederick M. Ciletti, English composition (Pottsville); Herbert Cole, Jr., plant pathology extension; Ernest Dejaille, engineering (Altoona); Ward S. Diethorn, nuclear engineering; Joseph M. Duich, agronomy; Della Durant, physical education; Paul Edmonston, art education.

Walter I. Goldberg, physics; William L. Harkness, mathematics; Ari Hoogenboom, history; Norman K. Hoover, agricultural education; Wesley G. Houser, engineering research; Kenneth W. Hylbert, education; Donald G. Johnson, mathematics; Emil Kazes, physics; Philip G. Keeney, dairy science; Joseph E. Kist, mathematics; Harold L. Lovell, mineral preparation; James F.

McDivitt, mineral economics; Harrison, T. Meserole, English; Norman B. Patterson, mathematics (Behrend); William J. Pervin, mathematics.

Ellen V. Piers, psychology; Marian B. Pour-El, mathematics; Jan S. Prybyla, economics; Marvin E. Rozen, economics; William T. Sanders, anthropology; Peter S. Signell, physics; Vladimir S. Stubican, solid state technology; M. Richard Syssman, finance; Robert G. Weaver, English; Stanley Weintraub, English; Donald J. Willower, education; Alexander J. Winter, veterinary science; and Wesley P. Winter, industrial engineering.

To Assistant Professor

Aurelia K. Adams, clothing and textiles; David C. Beppler, agricultural engineering; John K. Brillhart, speech; Thomas A. Campion, Jr., physical education (Ogontz); Charles E. Chevalier, mechanical engineering; William T. Conry, engineering (McKeesport); A. Jay Hirsch, accounting; John A. Hobbs, political science; William R. Johnson, history; Amy M. J. Kerstetter, zoology; Harold I. Knox, engineering (York); Thomas D. Larson, civil engineering; Ronald W. Linker, history; Herberta M. Lundegren, physical education.

Eugene J. McKnight, engineering (DuBois); Robert J. Napier, architecture; Charles E. Norris, engineering (McKeesport); Joseph V. Paterno, physical education; Michael J. Petscavage, engineering (Wilkes-Barre); Harry A. Reed, engineering (McKeesport); Virginia D. Ricker, English composition; H. Dennis Sherk, education; G. Brant Shoemaker, Jr., English (Ogontz); William B. Slish, management training (Ogontz); Stephen B. Spencer, dairy science extension; Judith Stoyke, business statistics; George A. Stull, physical education; Joseph P. Vigorito, accounting (Behrend); and Elcanor D. Wilson, physics (Ogontz).

To Instructor

Pasquale J. Cellini, engineering (Altoona); William C. Allshouse, engineering (Altoona).

LEAVES OF ABSENCE

Leaves of Absence have been granted to the following members of the faculty:

Dr. Hugh M. Davison, professor of education research, for the Fall Term, to spend six weeks visiting European universities and the remainder visiting school administrators in Pennsylvania, conducting research in school administration.

Richard H. Kennington, instructor in philosophy, Sept. 1 to Aug. 31, 1963, to teach and do research at St. John's College, Annapolis.

Dr. Warren W. Miller, professor of chemistry, for the Fall and Winter Terms, to do research in radio chemistry and visit laboratories throughout the country.

Dr. Hazel M. Hatcher, professor of home economics education, Sept. 16 to Dec. 8 and March 25 to June 8, 1963, to work on a new book in home economics education with Dr. Mildred Andrews, a child guidance specialist.

Melvin W. Isenberg, professor of architectural engineering, has been granted a leave from Jan. 1 to June 30 to write and prepare course materials in modular coordination. He will work in State College and in California.

Trustees

Agricultural and industrial societies last week re-elected four trustees to the Board. They are George M. Anthony, of Strausstown, a member since 1959; R. Johnston Gillan, of St. Thomas, member since 1941; H. Thomas Hallowell, Jr., of Jenkintown, member since 1950; and Walter W. Patchell, of Philadelphia, also member since 1950.

Anthony and Gillan were elected by agricultural societies. Hallowell and Patchell by industrial societies.

Elected by alumni of the University last Thursday were three incumbents: Milton S. Fritsche, of Philadelphia, member since 1948; Ralph Hetzel, New York, member since 1956; and J. Lester Mauthe, Youngstown, Ohio, member since 1938.

Examinations

Graduate students planning to take the written foreign language reading examination at the next scheduled time, July 16, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows:

By making an appointment at Room 227 Sparks Building for the German oral tests, which are to be given June 19, Room 300 Sparks Building for the French and Spanish oral tests, also to be given June 19, and at Room 218 Sparks Building for the English oral tests, to be given on June 25 from 1-5 p.m. in 218 Sparks.

Ph.D. candidates presenting English as one of their foreign languages must have written permission from the Dean of the Graduate School.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on July 16 no later than June 20 in Room 218 Sparks for English, Room 227 Sparks for German, and Room 300 Sparks for French and Spanish.

Alumni Institute Reunion

A panel discussion on the subject, "The Battle for Men's Minds," will highlight the 12th Annual Alumni Institute program today (Friday) held in conjunction with the Class Reunion activities this weekend.

To be held in the HUB Assembly Room at 10:30 a.m., the panel discussion will have Eugene H. Goodwin, director of the School of Journalism, as moderator and the following panelists: Dr. Hugh B. Urban, psychologist, Division of Counseling; Dr. Monroe Newman, head of the department of economics; N. J. Palladino, head of the department of nuclear engineering; and The Rev. Quentin Schaut, director of the Penn State Catholic Center.

The two-day program for alumni will also include a series of lectures Friday afternoon by faculty members at 2 p.m. and 3:30 p.m., dedication of Stone Valley Recreation Area at 5:30 p.m., class dinners and class parties in the evening. Saturday's activities will include campus bus tours in the morning, the all-class luncheon at 12:30 p.m., and the afternoon's program in Schwab Auditorium at which Distinguished Alumni and Woman of the Year Awards will be presented and President Walker will give his annual report on "The State of the University." Class banquets will be held Saturday evening.

Speakers for the Institutes this afternoon are:

Donald T. Laird, Max D. Richards, Dorothy J. Lipp, C. R. Carpenter, D. B. Vandommelen, Fred W. Kniffen, W. M. Hench, Elton Atwater, William H. Gray, C. R. Adams, William Monat, Ernest Ludwig, Gifford H. Albright, Charles Hosler, A. K. Blackadar, William F. Prokasy, and Sidney A. Bowhill.

Swim, games classes

Free classes in games and swimming for children and adult women will be offered this summer by the College of Physical Education and Athletics. They are open to faculty and staff members and to area residents.

Registration for all classes will be held Thursday, June 21, from 1 to 3:30 p.m. in White Hall main lobby. With enrollment limited by available facilities, acceptance will be granted in order of registration, which must be done in person. Children must be accompanied by an adult.

The classes being offered are:

Games Class — for children who will be in first or second grade, each Monday, July 2 to August 20, 9:45 to 10:45 a.m.

Games Class — for children who will be in third or fourth grade, each Wednesday, June 27 to August 22, 9:45 to 10:45 a.m.

Swimming — beginners class for children, 8-12 years, minimum height 46 inches, cannot swim or are not safe in deep water. Tuesdays and Thursdays, June 26 to August 23, 1 to 1:40 p.m.

Swimming — intermediate class for children, 8-12, able to swim in deep water minimum of 25 yards. Tuesdays and Thursdays, June 26 to August 23, 1:45 to 2:30 p.m.

Swimming — adult women's class, any level. Tuesdays and Thursdays, June 26 to August 23, 2:45 to 3:45 p.m.

NO PARKING

The Campus Patrol has requested that all motorists refrain from parking in Area 61, east of Recreation Building between 4 p.m. Friday, and 2:30 p.m. Saturday, to make the space available for activities associated with alumni reunions.

faculty BULLETIN

Vol. 49, No. 46 June 15, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. Tel.: UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. John A. Sauer has resigned as head of the department of physics, effective July 1, but will continue as professor of physics. Dr. John J. Gibbons will be acting head of the department. Dr. Sauer came to the University in 1946 as head of the department of engineering mechanics and was named physics department head in 1953. Dr. Gibbons has been a member of the faculty since 1937.

Helen Savard Galbraith, member of the faculty for 42 years, will retire July 1 as associate professor of art. A Carnegie Tech graduate, with a master of arts in English from Penn State, Mrs. Galbraith also studied art at Harvard University and costume design at Parsons School of Design. She has taught drawing, design, costume design, and interior design and decoration, and during World War II also taught English courses.

LEAVES OF ABSENCE

The following members of the faculty have been granted leaves of absence:

JOSEPH L. GRUCCI, English composition, Sept. 1 to Aug. 31, 1963, to work on his own poetry and translate that of major contemporary Italian poets, in Florence and Rome, Italy.

JOSEPH RUBIN, American literature, for the Winter and Spring Terms, to complete an edition of "The Poetry and Prose of Ann Bradstreet," and begin a study project, "Growth of Walt Whitman's Mind."

EDGAR E. AMBROSIOUS, mechanical engineering, Jan. 1 to June 30, to rewrite
(Continued on page four)

Mateer opening

Max Fischer, member of the faculty of the American Academy of Dramatic Art in New York, opened his seventh season at Mateer Playhouse this week in the role of actor, instead of the more familiar role of director, in the Florence Lowe-Caroline Franck comedy, "The 49th Cousin."

The Europe-born Fischer, who became a U. S. citizen only last November, has appeared twice as an actor in Mateer Playhouse productions, in "The Happy Time" in 1958 and "Middle of the Night" in 1960. He has been in the theatre since the age of 12 and appeared in European films for many years. He has acted and directed in the Max Reinhardt Theatre in Berlin, the Munich Chamber Theatre, Compagnons du Theatre Classique in Paris, and the Federal Theatre in Switzerland.

Last January, Fischer was a guest of the Habimah National Theatre in Israel, lecturing there and at the Music Academy and the New Hebrew University in Jerusalem.

The current Mateer production, which ends Saturday, will be followed by Tennessee Williams' "Period of Adjustment" (opening June 26 and continuing through July 7). It concerns the period of adjustment following the change from single to married life and is one of the author's few comedies.

Leon B. Stevens and David Frank star, along with Lydia Bruce and Esther Benson.

Tickets for the Williams' play may be obtained at Schwab Auditorium or at the Playhouse box office.

Construction

Preliminary plans for the Forestry Research Center, which is to be constructed immediately west of the present Research Center on east campus, were approved by the Board of Trustees recently. The new center will house a pilot saw mill, laboratories, classrooms, and offices, primarily for those engaged in research on woods as raw materials and on forest management production. Two greenhouses will adjoin the main unit.

Exams

The regular written Foreign Language Examinations will be held on Monday, July 16; those in German from 7 to 9 p.m. in 121 Sparks; those in French and Spanish from 7 to 9 p.m. in 10 Sparks; and those in English from 7 to 8 p.m. in 218 Sparks. The conflict examination in German will be held on Tuesday, July 17, from 7 to 9 p.m. in 12 Sparks. Students eligible to take the examination in English are those who registered prior to the fall of 1962.

NEWS IN BRIEF

➤ **PUPPETS:** George Latschaw will return to the University for the third summer to teach a class in puppetry and work in creative dramatics with children. In addition to teaching, he will be affiliated with the children's art show, "Keys to the Cupboard," being videotaped for fall release. Latschaw is internationally known for his puppetry.

➤ **FOUNDATION:** Van H. Leichter, of Cleveland, president of American Steel and Wire Division of U. S. Steel, has been elected by the Alumni Council to a four-year term as a member of the Penn State Foundation Board of Directors. He succeeds John T. Ryan, Jr., president of Mine Safety Appliance Co.

➤ **SUMMER:** Army R.O.T.C. cadets, 136 strong, will take summer training at Indiantown Gap; 150 Midshipmen in the Navy program, including Marine trainees at Quantico, Va., will report to bases at Norfolk, Corpus Christi, Boston, Baltimore, and New London; and Air Force cadets will go to bases in Florida, Ohio, Massachusetts, South Carolina, and Virginia.

➤ **HAWAII:** Dr. Hazel M. Hatcher, professor of home community relationships, is currently in Hawaii for a workshop at the University of Hawaii on the subject of evaluation of home economics education on the Island.

➤ **INSTITUTE:** Dr. Leonard Raver, Chapel organist, will play at St. Paul's Methodist Church in State College Wednesday, June 27, at 8:30 p.m., in conjunction with a new "Institute of Sacred Music" which is expected to attract organists, choir directors, singers, and ministers to the campus during the week of June 25. Mrs. Willa Taylor is chairman of the Institute and lecturers will include James Beach, Dr. Luther Harshbarger, and the Rev. P. Barrett Rudd, all of the University staff.

Busts presented

Busts of Dr. Evan Pugh, president of the University from 1859 to 1864, and of Dr. George Gilbert Pond, professor of chemistry and dean of the School of Natural Sciences who served on the faculty from 1888 to 1920, were presented during alumni reunion activities last weekend.

The Class of 1911 presented the bust of Dr. Pugh and the Penn State Pioneers, alumni who graduated more than 50 years ago, that of Dr. Pond. The young Philadelphia sculpturer, Allen Harris, did both busts.

Senate Minutes

MEETING OF JUNE 5, 1962

(Continued from Last Week's Issue)

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "C." He stated that the second sentence of Item I A 3 should read as follows:

Item No. 294 (Min Se 421) and Item No. 295 (Rus 430) are new courses and are recommended as meeting the criteria which have been developed as applicable to new courses for the duration of the moratorium as meeting immediate needs of the University; Item No. 340 (Journ 422) is a new course and is recommended as meeting the criteria for new courses prevailing prior to the moratorium inasmuch as the proposal was initiated before the moratorium became effective.

and in Item I B 1, No. 231 (Journ 485) for the second sentence substitute the following:

This is a new course and is recommended as meeting the criteria for new courses prevailing prior to the moratorium inasmuch as the proposal was initiated before the moratorium became effective.

In presenting the report Mr. Shelley gave an informal report of the work of the Committee concerning new courses which had been recommended to the Senate during the moratorium. He moved adoption of Item I A and I B. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "D" concerning a proposed change in Rule E-3 of the Senate Policies and Rules for Undergraduate Students. He moved adoption of the Proposed Rule E-3 as follows:

PROPOSED RULE E-3

Except for certain categories of students as noted below, all candidates for the first bachelor's degree shall earn at least 60 of the last 75 credits required in their curriculums in residence at the University Park Campus. These 60 credits may be earned by enrollment in courses, by supervised field work as defined in Rule B-1a and Rule B-1b, by study abroad as defined in Rule B-5, or by examination. The remaining curricular work may be earned by resident education, by continuing education, by transfer from other approved institutions or by a combination of these. Exceptions to this rule are (a) students enrolled in joint degree programs established by formal agreements with other institutions and ratified by the University Senate are exempt from this rule and are, instead, held to the particular requirements of the approved joint programs, (b) students transferring to the University Park Campus from other approved institutions with advanced standing of ninth term or higher, shall earn at least 30 credits required in their curriculums by enrollment in courses on the University Park Campus or in supervised field work, (c) candidates for bachelor's degrees subsequent to their first bachelor's degree shall earn at least 30 credits required in their curriculums in courses on the University Park Campus or in supervised field work.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

President Walker stated that it has been customary for the SENATE COMMITTEE

ON SCHOLARSHIPS AND AWARDS to consider hundreds of applicants for scholarships during the Winter and award the scholarships in January, but that this year the time of awarding scholarships has been changed and therefore the Committee has had to prepare two reports, one which had been presented to the Senate at its March meeting and another which had been distributed at the meeting today. Miss Della Durant, Chairman of the Committee, stated there were 154 recipients whose averages ranged from 3.89 to 3.40. She moved that the list of recipients for 1962-1963 be accepted. The motion was seconded and passed. The recipients are as follows:

LOUISE CARNEGIE SCHOLARSHIPS (\$100)

Burrison, John Abraham, Journ; Clare, John R. II, B A; Ditz, Joseph Merle, A & L; Elbel, William Paul, G Sc; Hanna, Steven Rodgers, Meteo; Hock, Winand Karl, Z E; Hughes, G. Nancy, A Ed; Koch, Elena Marie, Psy; Weiner, John, Chem; Weychert, Lawrence Jules, A & L.

CLASS OF 1921 SCHOLARSHIP (\$200)

Axilbund, Melvin Toby, A & L; Cwynar, Daniel Walter, E E; Duquette, Judith Irene, A & L; Rose, Marsha, Journ; Smith, Barbara Jane, EK Ed.

1920 CLASS SCHOLARSHIP (\$100)

Andrews, Suzann Lucretia, H Ec; Betron, Bernice Deborah, A & L; Duh, Joan Helen, A & L; Gentile, James Ronald, Psy; Henderson, Virginia Sue, H Ec; Hess, George Dale, Meteo; Hoover, Leo John, E Sc; Sedo, Carol, Ph Ed.

CLASS OF 1922

MEMORIAL SCHOLARSHIP (\$100)

Carroll, David Francis, Sec Ed; Dussinger, Carol Ann, C & P; Keller, Charles Ferdinand, Phys; Lontz, William Joseph, A & L; Moser, Judith Forbes, H Ec; Moyer, Richard Herbert, Engr; Plundo, Robert A., Ch E; Rose, Susan Giles, A & L; Schein, Lawrence Brian, Phys; Shafer, Nancy Ruth, H Ec; Stevens, Marla Jane, A & L; Totten, Judith Marie, C & P.

CLASS OF 1941 SCHOLARSHIP (\$125)

Meneghini, Kathleen Ann, Coun; Miller, Michael Robert, B A.

GENERAL SCHOLARSHIPS

Adams, Norman Paul Chem, \$200; Adelman, Lois Simmie A & L, \$300; Barney, Donald Howard B A, \$50; Bartoletti, Charles Spencer Phys, \$100; Burke, Phyllis Ann A & L, \$200; Bush, Susan Elizabeth C E, \$50; Cohn, Virginia Ellen A & L, \$200; Costello, Karen Lee A & L, \$200; Crowley, Patrick Joseph A & L, \$200.

Cupples, Barrett LeMoyné Chem, \$200; Drucker, Harris E E, \$200; Drumm, Peggy Elizabeth H Ec, \$300; Feduska, Carol Ann A & L, \$200; Franz, Stephen Henry Engr, \$200; Gaston, Twyla Ann AB Sc, \$50; Goloff, Michael Herman P M, \$50; Hall, Mitchell Melvin LArch, \$50; Hegedus, Louis S. Chem, \$200; Huber, Nancy Jean Bact, \$200.

Karnosky, Karen Helene A & L, \$200; Kelley, Russell Lynn A & L, \$50; Kinnan, Donald Paul A H, \$200; Kishel, Mary Frances Psy, \$200; Klinger, Howard Steven Engr, \$200; Klinger, Ellis David A & L, \$300; Kramer, Brian Dale, Chem, \$300; Kuder, Susan Ruth A & L, \$100; Letsch, Richard Curt M I, \$100.

Lindemeyer, Catherine Rosine Journ, \$50; McAdams, Katherine Frances A Art, \$100; McClatchey, Sharon Lee A & L, \$50; McQuaide, Arnold Chester, Jr. Engr, \$200; Messick, Ellen McCoy H Ec, \$50; Morris, Marsha Ann A & L, \$300; Nagy, Douglas Daniel Phys, \$300; Neal, Darwina Lee

LArch, \$200; Oberist, Doris Elaine A & L, \$50; Ogden, Joan Brigham, P M, \$300.

Platts, Susan Lynne A & L, \$200; Reese, James Douglas Arch, \$200; Rosella, Susan Celestine A & L, \$200; Rubin, Gerald Edward A & L, \$50; Salsgiver, James Allen C & P, \$300; Schneider, John Taylor E E, \$200; Seidel, George Elias, Jr. AB Sc, \$200; Shannon, William Thompson E Sc, \$200; Silver, Charles Laurence A & L, \$200; Silverstein, Lee B A, \$200.

Snyder, Nancy Jean H Ec, \$50; Stevens, Marla Jane A & L, \$100; Tanner, Roger Lee Chem, \$300; Taylor, Charles Lawrence Engr, \$200; Thurber, Susan Shirley H Ec, \$50; Trotman, Bruce Williams A & L, \$300; Vancko, Robert Michael A & L, \$300; Wooden, Linda Lee A & L, \$50; Yarnell, Kenneth A., Jr., Engr, \$300.

ESPY SCHOLARSHIP (\$150)

Andrews, Richard J., Ed.

LAWRENCE J. OSTERMAYER MEMORIAL SCHOLARSHIP (\$100)

Braun, Joseph Martin, Ch E; Catalano, Kathleen Matilda A & L; Driscoll, Wade Carl, E Mch; Dussinger, Carol Ann, C & P; Knell, Everett William, C & P; Lawrence, Kenneth John, B A; Lemieux, Christine Marie, A & L; McNett, James Louis G Sc; Milano, Joan, A & L; Mirth, Dale Bruce, C & P.

Powers, Dorothy B., A & L; Radlinski, Ronald Paul, Phys; Richter, Gerard Rudolph, Engr; Rothermel, Franklin John, P M; Schechner, Stephen Paul, A & L; Sell, Maurice George Jr., Ch E; Sheibley, Judith Ann, Psy; Sullivan, Cornelius Wayne, AB Sc; Tkacik, Henry John, E E; Williamson, David Lee, Meteo; Yurchak, Sergei, Ch E.

VANCE C. McCORMICK SCHOLARSHIP (\$150)

Zukauckas, Anthony Victor, B A.

SCHOOL ADMINISTRATOR'S SCHOLARSHIP (\$200)

Abplanalp, Paul Leroy, Psy; Bartoletti, Charles Spencer, Phys; Beaufort, Dennis Leland, Engr; Degyansky, Milan Eugene, C E; Dreese, John William, E E; Krause, Charles Lambert, Engr; Malone, John Irvin, P M; Miller, Carl John, Phys; Prumella, Linda Lee, Sec Ed; Spagnola, Patricia Ann, A & L.

LT. HARRY EDWARD WAGNER SCHOLARSHIP (\$100)

Abel, Eugene Kenneth, Jr., C & P; Burd, Samuel Dare, Jr., Ch E; Crum, Marlin William, Jr., Engr; Sager, Wayne Kenneth, AB Sc.

DONALD MacINTIRE MEMORIAL SCHOLARSHIP (\$100)

Rising, Lois Elizabeth, H Ec.

HELEN WOOD MORRIS SCHOLARSHIP (\$62.50)

Cartwright, Thomas Clark, G Sc; Greenwood, Steven Michael, P M.

JOHN W. WHITE SCHOLARSHIP

Albinsen, William Herbert, Arch, \$100; Beyerle, Barbara Ann, H Ec, \$150; McGrunder, Harriet Diane, Med T, \$200.

MARY THOMPSON DALE MEMORIAL SCHOLARSHIP (\$100)

Crumlish, Mary Ellen, H Ec.

ETHEL AND BAYARD KUNKLE SCHOLARSHIP (\$250)

Bucher, Doris Jean, H Ec; Gardner, Leonard Robert, G Sc; Gilson, Charlotte Ruth, A & L; Gulbinsky, Joseph Stephen, AB Sc; Holgate, Mary Lynne, A & L; Hostetler, Ronald Lee, AB Sc; Faux, Jill Susan, C & P; James, John Charles, A & L; Lip-

chak, Andrew John, Journ.; Ludwig, John Robert, AB Sc; Medoff, Jacklyn, A Art; Reitenauer, Ronald Lee, M E; Rich, David Howard, AerSp; Steinberg, Milton Louis, Psy; Waskell, Lucy Ann, P M; Yocum, John Francis, Engr.

UNFINISHED BUSINESS

B. A. Whisler, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "E" regarding changes in Rules Y-11, Y-14, M-2, and P-20. He moved adoption of Item I A and Item I B which proposed changes in Rules Y-11 and Y-14 as follows:

A. Insert as the first paragraph of Rule Y-11 (now the first rule in the Y section) the following:

Y-11. The University shall recognize as authorized student organizations only those groups which conform with the policies established for such organizations by the University Senate.

B. Insert in Rule Y-14 three words "the name or" so the rule would then read as follows:

Y-14. Use of the name or facilities of the University by student organizations is restricted to those that have been granted recognition by the University or are sponsored by a Department or College of the University.

The motion was seconded and passed. He then referred to a technicality in Rules M-2 and P-20 and moved that Item II which recommended that the symbol "EX" be deleted from these rules be adopted. The motion was seconded and passed.

M-2 now reads:

Grades for undergraduate and upper-class-graduate courses shall be reported by the following symbols: A, B, C, D, F, W, P, Def., And.

P-20 now reads:

Courses in which a grade of W or P have been obtained shall not be used in the application of any of these rules.

Mr. Whisler stated that Item III which reads as follows was for the information of the Senate:

III. For Information

The Administrative Committee on Resident Education Procedures suggested a change in Rule I-1-b. The Committee on Rules has reviewed this suggestion and recommends no change at present because the changed rule would be very difficult and costly to administer and because the need for a change is rapidly being reduced by present registration procedures.

D. H. McKinley announced that Commencement will be held on June 9, 1962 at 10:30 a.m. in Beaver Stadium. In case of rain three exercises will be held in Recreation Building, 10:30 a.m., 1:30 p.m. and 3:30 p.m.

President Walker commented on actions taken at the recent meeting of the Board of Trustees.

The President announced that he has reinstated the Senate Breakfast for this year and has asked H. A. Cutler to be in charge. He would like to see the Senate Breakfast become an annual affair and suggested that the Senate Committee on Faculty Affairs consider it. He thanked the Senate members for their help in what he thought had been a satisfactory year for Penn State.

The next regular meeting of the Senate will be on July 3, 1962; the agenda will be distributed on June 19, 1962. The meeting adjourned at 5:01 p.m.

Robert G. Bernreuter
Secretary

Distinguished Alumni



Four of the six Distinguished Alumni cited at ceremonies last week were present for the occasion. President Walker (left) congratulated Oliver Smith, theatrical designer and producer; James B. McWilliams, chairman of the Board of Railway Maintenance Corp.; Guy W. Wilson, general manager of the General Electric Co.'s Locomotive and Car Equipment Dept. at Erie; Enos J. Perry, retired dairy specialist. James B. Long, president of the Board of Trustees, also extended felicitations. Unable to be present were Livingstone P. Teas, consulting geologist, and Fred Brand, Jr., insurance executive.

ANNUAL REPORTS OF SENATE COMMITTEES Calendar and Class Schedule 1961 - 1962

Inasmuch as the Senate adopted in June of 1961 a completely new calendar policy that has been in use only a few months, it is not surprising that comparatively few items of business have come before the Committee for decision or action.

During the Fall term the Committee thoroughly reexamined the policy specification regarding the Thanksgiving holiday. The Chairman reported verbally to the Senate at the November meeting the decision of the Committee that no change would be recommended.

In a series of meetings during the Winter and Spring terms the Committee responded to a significant expression of faculty and student desire for the restoration of a formal final examination period. The Committee has prepared a report containing a recommendation for policy changes that will permit such an examination period, an endorsement in principle of an administrative plan for scheduling examinations, and a recommendation for appropriate changes in the rules for undergraduate students. This report will be presented to the Senate at the June 5, 1962 meeting.

H. J. Read, Chairman

Committee on Academic Standards

During the 1961-1962 academic year the Senate Committee on Academic Standards held fourteen meetings involving the full committee, as well as several meetings involving subcommittees. Acting under authority of the Senate By-Laws, the Committee acted on 244 cases involving reinstatements or the granting of exemptions from existing residence requirements. A summary of the Committee's actions follows:

Total Cases considered — 244
Cases involving reinstatement — 216

Baccalaureate candidates — 153 (137 granted, 16 denied)

Associate degree candidates — 63 (57 granted, 6 denied)

Colleges into which reinstatement was requested: Agriculture 21, Business Administration 13, Chemistry and Physics 13, Education 9, Engineering and Architecture 85, Home Economics 7, Liberal Arts 36, Mineral Industries 10, Physical Education and Athletics 1, Division of Counseling 21.

Cases involving Residence Requirements — 28.

Rule E-3 — 24 (20 granted, 4 denied)

Rule E-5 — 4 (4 granted)

The Committee also considered a variety of other items, including the following:

(a) The up-dating of regulations regarding the granting of credit to students called into military service. (Approved by the Senate, November, 1961)

(b) Changes in Senate Rule E-13. (Presented to and approved by Senate March, 1962)

(c) In cooperation with the Senate Committee on Athletics, considered changes in Senate Rule N-9. (New rule approved by the Senate, May, 1962)

(d) Considered changes in Rule P-12. No changes in present rule recommended.

(e) Considered matters (e.g. credit by examination and residence requirements) proposed by the Educational Policy Committee.

John R. Hayes, Chairman

Committee on Military Instruction

1. The Committee assisted the Dean of Men's Office and the Registrar in the administration of the S-Rules;

2. Considered but did not (at this date) come to a decision concerning the College of the Liberal Arts request for elimination of required ROTC from the Liberal Arts curricula.

Joseph G. Rayback, Chairman

Personnel —

(Continued from page one)

a textbook, "Mechanical Engineering Laboratory Practice," co-authored by Robert D. Fellows, and to travel in Europe, visiting mechanical engineering laboratories in England and Germany.

ALEX BLACK, Agricultural Experiment Station, Feb. 1 to July 31, to visit agricultural experiment stations in the south, southwest, and north-central parts of the U.S.

ROBERT P. MEAHL, horticulture, Oct. 1 to Dec. 31 and April 1 to June 30, to visit arboreta and nurseries throughout the Eastern U.S. to gather material for his book on the identification of woody plants.

M. F. MALLETTE, agricultural and biological chemistry, March 18 to Sept. 17, 1963, to serve as visiting professor at the University of British Columbia.

BORIS J. KOCHANOWSKY, mining engineering, the Fall and Spring Terms, to do research on blasting and the economics of mining engineering in Europe, with headquarters at Wulfrath, Germany, near Dusseldorf. He will present a paper Sept. 13 at the Leobener Bergmannstagg, in Austria, and give lectures at the Universities of Aachen and Clausthal and at the Montanische Hochschule in Austria.

WOLFGANG E. MEYER, mechanical engineering, June 16 to Aug. 31, 1962, on special assignment with the California Research Corporation, Richmond, Calif., to do research in multi-grade lubricants.

HARRY D. ZOOK, chemistry, Fall, Winter, and Spring Terms serving as visiting lecturer in chemistry at Stanford University and doing research and writing, beginning a revision of a book on synthetic organic chemistry.

BURTON E. VOSS, education, the Summer Term, to teach at an NSF Institute for academically talented high school students at the State University of Iowa.

GRANT W. SMITH, chemistry, Jan. 1 to June 8, 1963, to do research in colloid and surface chemistry at the University of Southern California.

S. LEONARD RUBINSTEIN, English, the Winter and Spring Terms, to write fiction.

NEIL A. McNALL, American history, Jan. 1 to June 30, 1963, to do research on the career of John Greig, New York State land speculator.

RUTH C. SILVA, political science, Jan. 1 to June 30, to develop standards for State legislature apportionment.

ERWIN R. SCHMERLING, electrical engineering, Sept. 16 to June 30, to serve as a staff scientist in the National Aeronautics and Space Administration, in a program for ionosphere physics research.

RIGOBERTO JUAREZ-PAZ, philosophy, extension of leave for the 1962-63 academic year to continue to serve as visiting professor of philosophy at the University of San Carlos, Guatemala.

ROBERT H. HOLTZMAN, education, extension of leave to October 1 to complete work for his doctor of education degree at the University of Illinois.

Summer films

The International Films Committee has announced a program of films for the Summer Term, to be shown Wednesdays at 3 p.m. and 7 p.m. in the HUB Assembly Room, which is air conditioned.

The schedule is as follows:

June 27 — The Lady Vanishes

July 11 — The Eagle has Two Heads

July 18 — A Nous La Liberte

July 25 — The White Shick

August 1 — Vitelloni

August 8 — Dreams That Money Can Buy

August 15 — On the Bowery and The Song of Ceylon

August 23 — The Seventh Seal.

Exhibition

Fifty drawings taken from the sketchbook of Toulouse-Lautrec, completed before he was 17 years old, will be on display July 1 to August 16 at the HUB Gallery.

The works are from the Albert H. Wiggin Collection of the Boston Public Library.

CALENDAR

Friday, June 22

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering D.

Mateer Playhouse production of "The 49th Cousin," 8:40 p.m.

Sunday, June 24

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Roy C. Buck, associate director of the Center for Continuing Liberal Education.

Tuesday, June 26

Opening night of Tennessee Williams' comedy, "Period of Adjustment," 8:40 p.m., Mateer Playhouse. Continues through July 7. (No performance Sunday or Monday.)

Wednesday, June 27

International Films Committee showing of "The Lady Vanishes," 3 p.m. and 7 p.m., HUB Assembly Room.

Concert by Dr. Leonard Raver, St. Paul's Methodist Church in State College, 8:30 p.m.

Friday, June 29

Artists Series program by pianist Andrew Heath, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Airport

Purchase of the assets of the State College Flying Service, Inc., has been negotiated. The assets include the unexpired lease the Service has held from the University to operate the University Park Airport.

The airport will continue to be used by the University as a part of its educational program, specifically to continue the flight training program for Reserve Officers Training Corps students. Flight training was initiated in 1957 to pre-test senior students in the R.O.T.C. program who have been singled out for pilot training.

A building, office equipment, and tools were also acquired in the purchase. The land is University property.

faculty BULLETIN

Vol. 49, No. 47 June 22, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. Tel.: UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Curtis quartet

One of the country's oldest and best known concert ensembles, the Curtis String Quartet, will be in residence from July 1 to August 4, sponsored by the University Artists Series, School of the Arts, and the annual Band, Orchestra, and Chorus School.

The quartet will perform four public concerts and teach a limited number of advanced musicians in the BOC school, and will coach a number of string ensembles.

Members of the Quartet are Meli Mehta and Jascha Brodsky, violinists; Max Aronoff, viola, and Orlando Cole, cello.

The concerts, all scheduled for 8 p.m. in Schwab Auditorium, will be held July 12, 17, and 26, and Aug. 1.

Telephone numbers

On a recent Sunday, 43 calls were made from telephones off-campus in the State College area to the University information operator to ask for the HUB desk telephone number.

All these calls were unnecessary, points out Wilbur F. Diehl, supervisor of mail and telephone services, because the HUB desk number along with other frequently-called University phones, is listed in the Bell Telephone Directory for the State College-Bellefonte area. In all, 14 numbers are listed for convenience of callers. There is always a delay involved if the caller goes through the University information operator.

Heath concert

Tickets for the Artists Series program by Andrew Heath, pianist, tonight (Friday) are available at the Hetzel Union Building Desk. The concert will be given at 8:30 p.m. in Schwab Auditorium.

Heath's program will consist of works by Hindemith, Beethoven, Clementi, Chopin, Debussy, and Martinu, with the anonymous "My Lady Carey's Dompe."

The Hindemith work is Sonata No. 3; that by Beethoven is Sonata in C, opus 53; by Clementi, Sonata in B-flat, opus 47; and by Chopin, two mazurkas, Opus 24 and Opus 17. He will also play Debussy's "Reflets dans l'Eau" and Martinu's "Okrocak."

Booklet

A small 32-page booklet entitled "Where to Stay and Eat in Pennsylvania" has been prepared by The Extension Professors Association and is available to faculty members at cost, 40 cents each.

The booklet contains a listing of many hotels, motels, and restaurants in the State, with ratings of good, fair, and poor as provided by local county agricultural agents. Most of the county seats are represented as well as some other towns or cities in nearly all counties. Parking information and price levels are also given.

Copies may be obtained from J. H. Gauss, treasurer, Extension Professors Association, 4 Weaver Building.

CALENDAR

Friday, June 29

Artists Series program by pianist Andrew Heath, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Mateer Playhouse production of Tennessee Williams' "Period of Adjustment," 8:40 p.m. (continues through July 7).

Sunday, July 1

Chapel Service, 9:00 a.m., The Chapel. Dr. Robert T. Oliver, head of the speech department, on "Religion: The Liberal Quest."

Tuesday, July 3

Senate meeting, 3:55 p.m., Room 121 Sparks.

Wednesday, July 4

Independence Day holiday.

Friday, July 6

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D".

Television listings

WFBC-TV, Altoona

Farm, Home and Garden — daily programs, 1-1:30 p.m., from Sparks Building Studios, by Agricultural Extension.

Glass conference

A number of faculty members are playing important roles in the Sixth International Congress on Glass, to be held in Washington, D.C., July 8-14. It is the first time the tri-annual event has been held in the United States.

Dr. Guy E. Rindone, associate professor of ceramic technology, is chairman of the technical program, which will include 50 papers on the science and technology of glass in many nations.

Dr. Frederick R. Matson, assistant dean for research in the College of the Liberal Arts, has charge of the history program, which is to have 29 papers and two special events at museums.

Dr. W. A. Weyl, Evan Pugh Research Professor in Mineral Industries, will be chairman of a session on "Diffusion Phenomena" and Dr. Rindone as deputy chairman of a session on "Properties of New Glasses."

One of the sessions, "Brief Research Announcements," is devoted to descriptions of work in progress not far enough along to report in a full-scale paper. Dr. F. A. Hummel, acting head of the ceramic technology department, will report with J. F. Argyle on "Liquid Immiscibility in the System BaO-SiO₂."

Papers will be given by scientists from all over the world and translated simultaneously into French, German, and English.

Doctors' lunch

An organization has been formed which automatically enrolls all graduates of the University who have obtained doctor's degrees with majors in education or psychology and all interested present and former faculty members.

Known as the Pennsylvania State Education Doctors Society, the group will hold its annual meeting Wednesday, July 18, with a luncheon in the Hotel State College banquet room.

Dr. Abram VanderMeer, dean of the College of Education, will be the featured speaker and Dr. James Moyer, who is retiring as head of the department of secondary education, will be honored guest.

The Society is somewhat unusual, in that it has no annual membership dues, the only charge each year being for the luncheon, which this year is \$2.50. Dr. Hugh M. Davison, professor of education, UN 5-2841, will provide additional information as needed.

Personnel matters

Benjamin M. Nead, for the past four years member of the staff of the Institute for Defense Analyses, has been named staff assistant to President Walker, filling the position formerly held by C. K. Arnold. A Lehigh University graduate, he taught there after World War II service and held positions of assistant to the dean of students and as editor, analyst, and project director on government research projects for the Institute of Research.

S. Leonard Rubinstein, associate professor of English, will be on leave of the Winter and Spring Terms of the 1963-64 academic year. He plans to devote his leave to writing fiction. He is the author of a number of short stories and of the novel, "The Battle Done."

Dr. John D. Ridge, assistant dean of Mineral Industries and head of the mineral economics department, will be on leave Sept. 16 to March 15, to do research in economic geology and mineral economics and work on two books, "Mechanics of Replacement," and "Memoir of the Geological Society of America," second edition.

Howard K. Slaughter, assistant professor of speech at the Altoona Cam-

pus, plans to work on his doctorate degree at the University of Pittsburgh during a leave of absence for the next academic year.

George L. Theuring, director of the department of management engineering and professor of industrial engineering, will spend three weeks at the Industrial University of Santander, in Colombia, at the request of the American Specialist Branch of the Office of Cultural Exchange of the U. S. State Department. He will aid the university in establishing a department to plan for the expansion of facilities and advise on the curriculum and facilities of the industrial engineering department.

Lester S. Hamel, retired brigadier general of the U. S. Marine Corps, has been named research assistant and assistant director of Student Affairs Research. He has served in the office as research assistant since last September 1 and for more than two years has been teaching courses in educational measurements and statistics in the College of Education. After voluntary retirement in 1958, Gen. Hamel enrolled as an undergraduate student with junior standing and has completed baccalaureate and master's degree work.

Scholarship, loans

Scholarship and loan programs established recently include the following:

Fred Merlin Kecker Scholarship Fund, to provide a four-year scholarship to a male graduate of York Community High School, Elmhurst, Ill. Effective with the 1963-64 academic year. Established by Mr. Kecker's father to honor the 1947 class valedictorian who died in 1955.

Walter S. Baver Scholarship and *Minna Baver Scholarship*, open to a freshman man and freshman woman, respectively, who are residents of Berks County. Established by the Walter S. Baver estate to be effective beginning in the 1963-64 academic year. Mr. Baver was a 1908 graduate of the University.

Rockwell Mfg. Co. Loan Fund, set up primarily to aid sons and daughters of company employees who attended the University or others recommended by Rockwell employees or by the director of student aid.

Class of 1962 Loan Fund, established by an initial gift of \$4,350 by this year's graduating class. Loans not to exceed \$500 in any one year available to full-time bachelor's or associate degree candidates. No interest to accrue until graduation or termination of the enrollment.

NEWS IN BRIEF

► **SCHOOL:** Nearly 80 high school age students are registered for the Band, Orchestra, Chorus School, beginning July 2, sponsored annually for young people interested in furthering their musical careers. Each student will take part in at least two of the three musical groups, which serve as laboratories for University students taking certain music and music education courses.

► **MATEER:** Tickets are still available for the Mateer Playhouse production of the Tennessee Williams' comedy, "Period of Adjustment," which runs until July 7. They may be obtained at the ticket office in Schwab Auditorium until 6 p.m. or at the Playhouse after 6 p.m.

Barns

Construction is expected to begin in the spring of beef cattle and sheep barns on Farm No. 5, in the orchard area. Preliminary plans for the barns have been approved by the Board of Trustees.

The General State Authority has allocated \$925,000 for the project, which includes large units for the beef cattle and sheep separated by a small administrative building, which will contain also research facilities and offices.

Senate Minutes

ANNUAL REPORTS

Educational Policy Committee

The Educational Policy Committee met 38 times during the period June 11, 1961 to June 9, 1962. The policy matters considered during that time are summarized below:

A. *Associate Degree Programs.* In response to the request made by President Walker at the May 4, 1961 Senate meeting that the Committee prepare a report on the various kinds of associate degrees, the Committee presented a definitive report at the November 7, 1961 meeting of the senate. In addition, the Committee recommended Senate approval of: two types of associate degrees, occupational or terminal associate degrees and general associate degrees; specific credit minimums and maximums for associate degrees; a flexible policy of admission to associate degree programs; and, policies for transfer between associate degree and baccalaureate degree programs. The report was accepted and the policy recommendations adopted. See Faculty Bulletin November 17, 1961.

B. *Examination for Credit and Placement.* Based on recommendations of its Subcommittee on Improvement of Instruction, the Committee reviewed the entire structure of placement examinations, advanced placement, and credit by examination at the University. As a result of this study, the Committee initiated a series of actions. The Administrative Committee on Resident Education Procedures was requested to study the possibility of having regularly scheduled and announced examinations for credit in selected courses. A request was made to the Admissions office and the Division of Counseling that the College Entrance Board Advanced Placement Testing be publicized among prospective students. An information report was presented to the Senate on March 6, 1962, which urged advisers to make certain that their advisees made the necessary application for advanced credit, described the procedure for obtaining advanced placement credit, and approved the use of departmental placement tests for credit. This report was accepted by the Senate. See Faculty Bulletin March 16, 1962. Finally, to encourage students to seek credit by examination, the Committee recommended to the Senate on April 3, 1962, that passing grades for credit by examination be recorded and included in the student's average. This recommendation was passed after amendment by the Senate. See Faculty Bulletin April 13, 1962.

C. *Competence in Oral and Written Communication.* With the addition of new courses and new Senate policies, the Committee felt that there was a possibility for confusion in interpreting the University's requirements in English and Speech, particularly with regard to exemption. Therefore, an informational report to clarify previously established Senate policies concerning these matters was presented to the Senate and accepted on April 3, 1962. See Faculty Bulletin April 13, 1962.

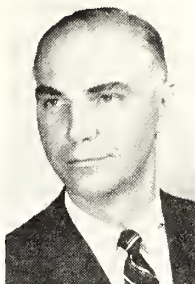
D. *Changes in Rule E-3.* At the Senate meeting of June 5, 1962, the Committee recommended changes in Rule E-3 to accomplish the following: one, permit exception to the 60 of the last 75 credits stipulation for the first bachelor's degree in the case of formal agreements with other institutions; two, permit students transferring from accredited institutions with ninth term stand-

(Continued on page four)

WYOMISSING CENTER

ABOUT a third of the 180 students normally enrolled at the Wyomissing Center live in Reading (pop. 98,000), the other two-thirds in towns nearby with the interesting names of Womelsdorf, Robesonia, Kutztown, Shillington, Sinking Spring, New Holland, and Ephrata.

Wyomissing is a residential suburb of Reading in the heart of the Pennsylvania Dutch Country and family names like Seidel, Eisenhower, Sweitzer, and Anspach dominate the rolls of the Center. It is also the focus of a major textile industry and the history of the Center is related to the industry.



Dr. Perkins

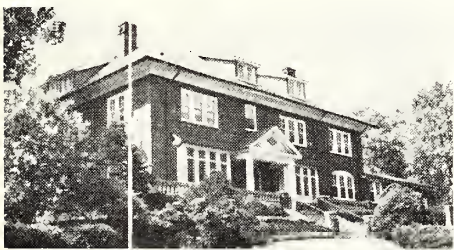
A member of the Penn State Commonwealth Campus System only since 1958, the Center had its beginnings in the Wyomissing Polytechnic Institute which came into existence in 1927 as part of the Education Department of the Textile Machine Works. A year later it was named the Wyomissing Trade School and in 1933 was granted a charter as the Polytechnic Institute.

The school operated a cooperative program with the Wyomissing Industries, providing an apprentice-type training, alternating study and work periods which the student completed in 2½ years in year-round programs.

Continuing this tradition, approximately 40 per cent of today's students at the Center are enrolled in the cooperative student-apprentice program in drafting and design technology, mostly with the Textile Machine Works. The arrangement is unique for the Commonwealth Campuses.

Wyomissing is also unique for a new associate degree program in chemical technology, which enrolled 35 students the past year, four of them women. The balance of the students are enrolled in drafting and design technology and electrical and electronics technology two-year programs.

Both the Classroom and Laboratory buildings of the Center are in the heart of Wyomissing, half a block apart. The Classroom Building, a remodeled church, has administrative and faculty offices, library, student social-recreational area, and ten classroom or conference rooms. The Laboratory Building is owned and attached to the Berkshire Mills and is a one-story brick structure, 100 ft. by 166 ft. Two large drafting rooms, most commodious of such facilities in any part of the University, four laboratories, projection-classroom, and an all-purpose assembly room are the legacy from the Institute.



New Thun House Addition

conference and student recreation space. The house was originally the residence of the Ferdinand Thun family but more recently the recreational facility for the Textile Veteran Craftsmen, a pensioners' club of the Machine Works.

The eleven-man faculty at Wyomissing is headed by Dr. Harold W. Perkins, former associate dean of men at the University Park campus. A Pennsylvania native, he received the A.B. degree from Washington and Jefferson College in 1941 and master's and doctor's degrees from Penn State. Except for three years in the service, he was alumni secretary and later secretary of admissions at W. and J. from 1941 to 1949, when he joined the Penn State staff as assistant dean of men. He was named associate dean in 1957 and head of the Wyomissing Center in 1959.

Recently the directors of the Textile Machine Works approved the gift of the Thun house, with two acres of land, to the University for use of the Center, which is two blocks away. It will be used mainly for continuing education work and provide more



Laboratory building at Wyomissing.

Two of the faculty, Chauncey R. Kay and Paul W. E. Gehris, both assistant professors of engineering and architecture, have been at Wyomissing for more than 30 years, as has business manager Walter A. Bauer. Mrs. Louise Gotschall, administrative assistant, has over 20 years service to the Institute and the Center. Harold J. Herbein, associate professor of general engineering, has served on the faculty for 16 years and is one of four Penn State alumni, the list also including Gehris, Jennings B. Knoebel, instructor in engineering, and Edward M. Roderick, who has 25 years of experience in ordnance, sales, mechanical, and design work in engineering.

The engineering staff also includes Donald C. Tredennick and E. George Griffith, both retired military officers, and Reginald B. Hanford, who has had 27 years of experience as electrical sales engineer with General Electric Co. The chemistry-physics staff includes W. Rogers Sutton, now completing doctoral work at Penn State, who has 23 years of industrial chemistry experience and has taught at the University of Buffalo and Broome Technical Institute, and Gary C. Roth, now working on his master's degree at the University. Henry W. Moehling, instructor in English and speech, is a Muhlenberg graduate currently working on his master's degree in speech at Penn State.

Today's graduates of Wyomissing, perhaps more than those of any other Commonwealth Campus, are employable and employed in their home community. The Reading industrial complex is a healthy and prosperous area, with the second lowest unemployment rate in the State, and it is capable of adding to its total educational program as the future requires. The University Board of Trustees recently reaffirmed its desire to provide for an enrollment of 500 students at Wyomissing by 1970 if the financial means can be found. And, the Board added, if the need arises, the baccalaureate program will be added to the associate degree work now offered. Even the expansion of nearby Albright College and Kutztown State College in the future may not provide the total expansion needed in the Berks County region soon.

Although the Center is new, in that the associate degree programs were initiated only four years ago, Penn State is not new in the area. The continuing education programs, under the general supervision of Ronald Bornmann, carry on a tradition of extension work by Penn State established many years ago. Evening class programs have been conducted in Reading for over 30 years, and during World War II war training courses were well received.

Student activities are enthusiastically supported at Wyomissing, including a small glee club under professional direction; intramural and inter-campus competition in bowling, table tennis, chess, and basketball; special interest groups such as the Radio-Electronics Club which installed a ham radio station and the intercommunication system at the Center; and social events. With few exceptions, a weekly assembly program is held to bring speakers from the University Park campus or the Reading area.

In a sense, the Wyomissing Center is the only Commonwealth Campus to have developed from an industry, rather than an entire community. But it is the community which will be the backbone of the Center's future progress; it is off to a good start.

Senate —

(Continued from page two)

ing or higher to receive the bachelor's degree with a minimum of 30 credits; and three, clarify the use of credit by examination in meeting residence requirements.

The Educational Policy Committee during the year also: presented a position paper to the University Development Committee on the general structure and organization of the University; formed a special sub-committee to undertake the preliminary drafting of a statement of the purposes and obligations of the University preparatory to the next Middle States Association visitation; conducted preliminary discussions of the educational merits and problems of the term system; worked with the Speech Department on the problem of developing a testing program for student exemption from Speech 200; continued previous consideration of the University's course numbering system; and discussed intra-University student transfers and the removal of failures from a student's transcript.

The Chairman wishes to acknowledge the constant loyalty of the entire Committee despite the heavy demand made upon their time. Professor C. N. Thiel served his fourth consecutive year as Secretary in his usual flawless manner. Also, the Chairman wishes to thank the faculty members, administrators, and the other Senate Committees who have, without fail, aided promptly and effectively the committee in its work.

John J. Schanz, Jr., Chairman

Committee on Student Affairs

The Senate Committee on Student Affairs met on the average of once every two weeks during the 1961-1962 academic year. Approximately two-thirds of the committee's time was occupied by routine matters such as chartering and granting permission for specific student activities, the remainder of the time was spent revising Senate rules for undergraduate students and working with the offices of the Dean of Women and Dean of Men on the students' judicial system.

During the 1961-1962 academic year, up to and including May 24, 1962 the Senate Committee on Student Affairs performed the following:

1. Chartered 25 student organizations and denied charters to two others. (See Appendix A). The committee spent almost four complete meetings, which included

the sub-committee on Organizational Control, considering and chartering Undergraduate Student Government.

2. Cooperated in and approved the publication of "Guide to University Regulations Concerning Student Affairs, Conduct and Discipline."

3. Recommended changes in Senate Rule W, Y and Z which were approved by the Senate on January 9, 1962.

4. Adopted in April 1962 a "Uniform Policy for Undergraduate Judicial Systems." This policy was adopted by the Dean of Women and Dean of Men and made known to students by publication in the Daily Collegian.

5. Increased liaison with Commonwealth Campuses by extending a standing invitation to Dean Merle Campbell to attend committee meetings. In December 1961 the chairman met with Ogontz Campus Committee on Student Affairs at Ogontz to discuss cooperation and policy and to expedite procedure for chartering. This meeting resulted in smoother cooperation between the two committees.

Sub-Committees:

1. Organizational Control:

This sub-committee reviewed all charter applications and made suitable recommendations to the Student Affairs Committee. It also heard an appeal from a Pan-Hellenic judicial by a sorority.

2. Discipline:

This sub-committee met on an average of three times every two weeks to hear cases referred to it by the offices of the Dean of Women and Dean of Men. Altogether (to May 23, 1962) the sub-committee heard 141 cases involving male students and 6 involving female students. The average case takes about one hour.

3. Group Discipline:

This ad hoc sub-committee met four times to consider organizational infractions. In all cases fraternities were involved.

APPENDIX A

Student Organizations Chartered during Academic Year 1961 - 1962 up to May 24, 1962

Association Internationale des Etudiants en Sciences Economiques et Commerciales (The) — Local Committee — Charter granted February 21, 1962.

Alpha Kappa Alpha Sorority — Charter granted April 25, 1962.

Alpha Sigma Alpha Sorority — Charter granted January 24, 1962.

Ankon Society (Ogontz Campus) — Charter granted March 7, 1962.

Army R.O.T.C. Band — Charter granted January 24, 1962.

Army R.O.T.C. Rangers—Charter granted March 7, 1962.

Army R.O.T.C. Rangers (Ogontz Campus) — Charter granted April 4, 1962.

Army R.O.T.C. Rifle Team — Charter granted January 24, 1962.

Art Association (The Pennsylvania State University) — Charter granted March 7, 1962.

Belles Lettres (Ogontz Campus) — Charter granted April 4, 1962.

Debating and Public Speaking Society (Ogontz Campus) — Charter granted March 7, 1962.

Folklore Society — Charter granted January 24, 1962.

Gamma Colony — Charter granted February 21, 1962.

Intramural Board (Ogontz Campus) — Charter granted February 21, 1962.

Investment Club (Penn State) — Charter granted January 25, 1962.

Iota Alpha Pi Sorority — Charter granted January 24, 1962.

Keystone Society (Commonwealth Campuses only) — Charter granted January 24, 1962.

La Critique (revised constitution) — Charter approved February 21, 1962.

Lacrosse Club (Penn State) — Charter granted April 4, 1962.

Ogontz Campus News — Charter granted April 25, 1962.

Organization of Student Government Associations — Charter granted January 24, 1962.

Pershing Rifles (The) — Charter granted February 21, 1962.

Semper Fidelis Society — Charter granted January 24, 1962.

Sigma Gamma Tau (honorary society) — Charter granted April 25, 1962.

Spectrum (The) — Provisional charter granted April 4, 1962. Provisional charter will expire at the end of the Spring Term 1963 and a permanent charter will be needed at this time.

Undergraduate Student Government — Charter granted January 24, 1962.

Young Americans for Freedom — (Permitted to function on campus without charter).

Dr. Laurence H. Lattman, Chairman

faculty BULLETIN

Vol. 49, No. 48 June 29, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. Tel.: UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, July 6

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

Mateer Playhouse production of Tennessee Williams' "Period of Adjustment," 8:40 p.m., Standing Stone. Concludes Saturday, July 7.

Sunday, July 8

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. E. H. Freund, professor of philosophy, "Overcoming Evil."

Tuesday, July 10

Opening night of Mateer Playhouse production of Christopher Fry's "Tiger at the Gates," 8:40 p.m., Standing Stone.

Wednesday, July 11

International Film showing, "The Eagle Has Two Heads," HUB Assembly Room, 7 p.m.

Thursday, July 12

Concert by Curtis String Quartet, 8 p.m., HUB Ball Room.

Friday, July 13

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

CURTIS QUARTET

The first concert by the Curtis String Quartet will be given July 12 at 8 p.m. in the HUB Ball Room. (Please note change of place.)

The Quartet, composed of Meli Mehta and Jascha Brodsky, violinists, Max Aronoff, viola, and Orlando Cole, cello, are in residence from July 1 to August 4, sponsored by the University Artists Series, School of the Arts, and the annual Band, Orchestra, and Chorus School.

Other concerts will be given by the Quartet July 17 (in Schwab Auditorium) and July 26 and August 1 (in the HUB ball room).

Final exam period scheduled

PRESIDENT Walker has requested the Scheduling Officer of the University Park campus and the Directors of the Commonwealth Campuses to establish final examination periods, beginning with the Fall Term, 1962, as a result of Senate Action June 5 authorizing a final exam period following the completion of a regular term.

The following procedures will apply, as established by the Senate or recommended by the Administrative Committee on Resident Education procedures:

1. The final examination period will be the 61st, 62nd, and 63rd days of the term (Sundays not being counted.)

2. The decision as to whether a given course will be scheduled for a final examination during this period or whether all testing for that course will be included in the regular class schedule is to be made by the instructor. Appropriate notice will have to be given to the Scheduling Officer or Director by the department head.

3. Only one 75-minute period for a final examination per course will be scheduled in the examination period (except for a conflict examination if one is needed); that is, multiple section courses will be limited to only one common examination in the examination period. If some sections of a multiple section course are to be given "tailor-made" final examinations, these examinations will have to be held in their assigned class period.

4. The duration of an examination given during the final examination period will be 75 minutes.

5. There will be no review period separately scheduled outside the 60-day instructional period.

6. Any student with two or more final examinations at the same time must file a request for a conflict examination at the time and place specified in advance by the University Scheduling Officer or Director. Any student with three or more examinations on the same day may file a similar request, and conflict examinations will be arranged, if feasible. If a student fails to file a request for a conflict examination within the time assigned for that purpose, he shall pay a charge of ten dollars (\$10) for the privilege of filing a late request for conflict examinations.

7. The present regulation governing evening examinations will be retained except that evening examinations will not be permitted during the final week of classes. (See Senate Regulations I-9)

8. The following calendar changes were approved to permit the organization of final examination periods:

FALL TERM, 1962

Final examinations—Tuesday, Dec. 4; Wednesday, Dec. 5; Thursday, Dec. 6. Commencement, Saturday, Dec. 8.

WINTER TERM, 1963

Final examinations—Monday, March 18; Tuesday, March 19; Wednesday, March 20. Commencement, Saturday, March 23.

SPRING TERM, 1963

Final examinations—Thursday, June 6; Friday, June 7; Saturday, June 8. Commencement, Sunday, June 9.

MATEER PLAY

Christopher Fry's adaptation, called "Tiger at the Gates," of the Jean Giraudoux play, "The Trojan War Shall Not Take Place," will open at Mateer Playhouse Tuesday, July 10 and run through Saturday, July 14.

In starring roles for the play directed by Max Fischer are David Frank, Leon B. Stevens, Lydia Bruce, Esther Benson, and Max Gulack of the regular company and newcomers Kay Frey and Carol Sams. Miss Frey is making her professional debut in the play. Mrs. Sams, assistant managing editor of the Journal of General Education, is making her State College debut but has had acting experience with the Cleveland Playhouse, Dock Street Theatre in Charleston, S. C., and the Carolina Playmakers at Chapel Hill, N. C.

LIBRARY MOVES

All the materials of the Forestry Reading Room and periodicals and other reference materials of the Agricultural Library have been moved to the basement of Leete Hall, one of the North Halls.

Moving of the Agricultural Library materials is temporary in nature while remodeling work in Patterson Building is underway.

All services will be operated from Leete Hall and a staff will be maintained there. Access to the facility is from the entrance on the west side of Leete Hall off of Park Ave. and not through the residence halls proper.

Library hours during the Summer Term will be: Monday-Friday, 9 a.m. to noon, 1 p.m. to 5 p.m., and 7 p.m. to 10 p.m.; Saturday, 9 a.m. to noon.

Legislators here



Members of the Pennsylvania Legislature comprising the Task Force on the Coal Industry of the Joint State Government Commission met with members of the College of Mineral Industries faculty last week to attempt to work out ways of attacking the problem of the decline in the use of coal both in Pennsylvania and the nation. In addition to hearing discussions of the current research at the College, they viewed the laboratories and other facilities devoted to coal research. Chairman of the Task Force is Rep. John F. Stank, of Shamokin.

Groff speaks on China

"A voice from the past, that of G. Weidman "Daddy" Groff who was known to many Penn Staters during his 40 years of agricultural missionary work in China, in effect further indicts the Communist system for failure to solve the agriculture problems of that vast country.

"Daddy" Groff died in 1954 after a lifetime of service to Lingnan Plant Exchange he established in Florida after returning to this country in 1940.

In July 1947, Daddy Groff was asked by the Associated Press a number of pertinent questions regarding China's agricultural potential and needs. With a background no other foreign person could match, he was an acknowledged authority on the subject. At one point he said:

"Since approximately 80 per cent of the Chinese people live close to the land, and a large majority of these are hand-working, intelligent, practical farmers, and since land and climatic areas within China are comparable to those of the United States, it is reasonable to conclude that Chinese agriculture could within a short time produce food enough to feed the people of China. However, to accomplish this, China must have freedom from war, adequate government control of economic conditions including better protection of the farmers' interests, and extension of transportation facilities, both water and rail."

Daddy Groff was speaking before Communism overran China and the adequate government control he asked for took the form that it did. The Nationalists were generally successful against the Communist, in the civil war raging then with U.S. aid there was no stable government, and farm controls were nonexistent.

"Shantung, Honan, and Hunan are large wheat and rice growing areas," he wrote. "And within the lands farther south where annual rainfall averages 60 inches, but with dry winters requiring irrigation, there is an all-year growing period making three grain crops each year possible. Here, too, are extensive undeveloped land areas awaiting a modern, machine type of agriculture. These areas include the provinces of Yunnan, Kwangsi, and Kwangtung, including the large, undeveloped island of Hainan with tropical flora.

"Chinese agriculture has not been modernized," Groff wrote. "But with the present-day teaching in China of scientific agriculture, and with the peasants seeing first-hand many labor-saving, machine methods used by

western countries during the war, many of which are applicable to agriculture, there is at present a strong trend in China toward the modernization of agriculture. The interest is present in China but it cannot develop far under present political and economic conditions."

Daddy Groff's hopes, however justified, have failed to materialize under Communist rule since 1949 and the major problem before the land of 640,000,000 people is food. Where Groff had reason to believe the Chinese could soon export food and other agricultural products, the Communists are now searching the world for grains to feed their starving people.

Groff gave the Chinese farmer much credit. "They are," he said, "intelligent students of nature and the peasant is an able farmer ever looking for sound, profit-bearing practices. In the science of agriculture and in extensive, field culture there is much they can learn from the West, including plant breeding and selection, and insect and disease control. Right theories for a reconstructed agriculture are today greatly needed in China."

Daddy Groff had helped China and its agriculture for many years. He went to Lingnan University in 1907, immediately after graduation from Penn State. In 1911, students at Penn State voted support of his program and for many years contributed through Chapel offerings to his agricultural work at the university. He was the first dean of the School of Agriculture at Lingnan in 1921.

Over the years Groff conducted extensive investigatory work on Chinese plants and collected valuable data about them. When he returned to the United States in 1940, due to ill health, he brought much of his data along. So intent was he on continuing to help Chinese agriculture that he established the Lingnan Plant Exchange in Florida, where he added to his notes and began compilation of a plant manual, a record of his own observations of the growth and uses of plants in southeast China.

At his death, Groff willed his valuable papers to the University, including the unfinished manual. In 1958 was begun the job of cataloguing the materials and interpreting many of the hand-written notes, with aid from the American Board of Trustees of Lingnan University. John Hsueh-ming Chen, agricultural education student from Formosa did the interpreting on 18 families of plants and a complete index of 280 identi-

(Continued on page three)

Items of Interest

Honors and Awards

KAY, C. R., Wyomissing Center, the President's Award of the Industrial Management Club of Reading and Berks County for excellence as a committee chairman and contributions beyond committee responsibilities.

The Arts

CATALDO, JOHN, art education, exhibited walnut sculpture, "Three Figures," at the Decorative Arts and Ceramics Exhibition, Wichita, Kan.

PAPPAS, MARILYN, art education, exhibited a stitched wall hanging, "Sea Cliff," at the Decorative Arts and Ceramics Exhibition in Wichita, Kan.

Lectures and Talks

CARZO, ROCCO, JR., management, talk at the Top Management Executive Development Seminar sponsored by the Productivity Center of Monterey, at Parras, Mexico.

DAVIDS, NORMAN, engineering mechanics, "Shock Waves in Solid Centers" lecture at the Arnold Engineering Development Center of the U.S. Air Force near Nashville, Tenn.

DAWSON, R. E., Scranton, "The Challenge of the 60's" at the Scholastic Awards Dinner at Tamaqua High School.

HANSON, BILL, studio art, "Nature and the Visual Arts," illustrated, at the New Kensington Center.

HELLER, JULES, School of the Arts, three lectures at the Williamsport Second Festival of the Arts, on "George B. Luks and the Eight," "The Great Americans," and "American Painting."

KOUNTZ, R. R., sanitary engineering, "Sewage Treatment Processes—Today and Tomorrow," before the Westmoreland Section, American Society of Mechanical Engineers in Greensburg.

LOWENBERG, MIRIAM E., foods and nutrition, "Why We Eat as We Do," at the American Home Economics Association meeting in Miami Beach, Fla.

MACKENZIE, OSSIAN, Business Administration, "Business Administration as an Undergraduate Study," before the National Industrial Conference Board Council of Executives on Company Contributions.

MANN, C. W., JR., Pattee library, "Rare Books in Small Libraries," before regional branch of the Pennsylvania Library Association.

MUELLER, E. W., physics, lectures on Field Ion Emission and Metallography on the Atomic Level at institutes of the Academies of Moscow, Leningrad, and Kiev, and the physics department at Leningrad University.

—lectures at Euratom, joint European research center on nuclear reactors at Ispra, Italy, on Radiation Damage. Also at the University of Cambridge, and Imperial College, London.

NICHOLAS, FRED, engineering research, "Energy Utilization Efficiencies in University Buildings" before the Penna. Association of Institutional Engineers meeting at Millersville State College.

PANOFKY, H. A., meteorology, "Weather Forecasting According to Physical Laws"

at the Carnegie Institute of Technology Sigma Xi banquet; also "Atmospheric Turbulence" at a colloquium.

PERKINS, H. W., Wyomissing, "Your University in Berks County," before the Reading Chapter, American Business Club.

ROSE, ARTHUR, chemical engineering, four lectures on separation and purification methods, for the research and development staff of the Standard Oil Co. of Calif.

SKELL, P. S., chemistry, "The Chemistry and Structure of Carbones," before the Princeton Section, American Chemical Society.

SLISH, W. B., management training, "Human Relations," at the Administrative Management Program for Small Business Executives sponsored by the Greater Pottsville Area Chamber of Commerce.

STAFFORD, E. E., Student Affairs Research, "Evaluation and Misvaluation of Tests" before the Moon Twp. elementary and secondary school teachers.

THOMPSON, S. E., hotel and institution administration, keynote address, "Horizons Unlimited" at annual meeting of the National Executive Housekeepers Association.

VEON, DOROTHY H., education, "Creative Leadership in Community Services" at a workshop on Leadership Education at Levittown, Pa.

Elected and Appointed

DAWSON, R. E., Scranton, appointed chairman of the House Finance and Personnel Committee of the Scranton Chamber of Commerce.

—elected to two-year term as Director of the Scranton Chamber of Commerce.

DEASY, G. F., geography, appointed consultant on tourism projects to Office of Planning and Research, Area Redevelopment Administration, U.S. Dept. of Commerce.

JOHNSON, J. C., Ordnance Research Lab, elected Fellow of the Acoustical Society of America.

QUIGGLE, DOROTHY, chemical engineering, elected president, Sigma Delta Epsilon, national graduate women's scientific fraternity.

WITMAN, C. J. R., industrial engineering appointed vice-chairman, Mid-Pennsylvania Chapter, American Society of Tool and Manufacturing Engineers.

Articles and Papers

At the Third Congress of the European Federation of Chemical Engineering, in London, papers by FRANK DACHILLE, geochemistry, on modifications of the opposed anvil apparatus for studying large samples of material under very high pressure, and by RUSTUM ROY, geochemistry, on effects of high pressure on glasses.

At the 70th annual meeting of the American Society for Engineering Education at Colorado Springs, papers by MARIN, JOSEPH, on "A New Course on Continuum Mechanical Behavior of Materials"; by LANCASTER, OTIS, on "Teaching Aids as Applied to Management Science Stem"; and by MOORE, FRANK B., on "Teaching Methods—1962."

ALEXANDER, MILNOR, political science, "The Right to Counsel for the Politically Un-

popular," in the Spring issue of Law in Transition.

ALMQVIST, J. O., dairy, with MOYER, R. F., "Diluents for Bovine Semen. X. Livability of Spermatozoa Stored at Ambient Room Temperatures in Diluents Containing Skimmilk," in the Journal of Dairy Science, Vol. XLV, No. 3.

AMMANN, R. P., dairy, two articles on the reproductive capacity of dairy bulls in The American Journal of Anatomy, 110:1, 1962.

BEITTEL, K. R., art education, "Creative Performance in the Visual Arts in Higher Education: Criteria, Predictors, Experimentation, and their Interactions," at the Fifth National Research Conference on Identification of Creative Scientific Talent.

BREWSTER, R. W., political science, "La separation des pouvoirs aux prises avec les nouvelles forces politiques," in the French journal, "Revue Internationale des Doctrines et des Institutions," published in Paris.

COOMBS, F. M., physical education, "Penn State's Stone Valley," in the June issue of Pennsylvania Journal of Health, Physical Education and Recreation.

COOPER, E. L., zoology, "Growth Rate of Brook Trout at Different Population Densities in a Small Infertile Stream," in the April issue of the Progressive Fish-Culturist.

CORSO, J. F., psychology, "Timbre Cues and the Identification of Musical Instruments" and "Bone-Conduction Thresholds for Sonic and Ultrasonic Frequencies," at the annual meeting of the Acoustical Society of America.

DELVIE, DAGOBERT, German, in the March issue of Monatshefte, University of Wisconsin, a review of Leonard Jost's "Sprache als Werk und wirkende Kraft. Ein Beitrag zur Geschichte und Kritik der energetischen Sprachauffassung seit Wilhelm von Humboldt."

DILLENBICK, HAROLD, engineering drawing, in the May issue of the Journal of Engineering Graphics, on graphics.

DRAFER, A. B., industrial engineering, discussions on machinability of ductile iron and the use of empirical tool-life equations, at the annual convention of the Ductile Iron Society in Cleveland.

GROFF —

(Continued from page two)

fied families, many with Chinese character names, was prepared by Marvin H. Runner.

The final report, which includes an inventory of the books and the published and unpublished papers in the Groff Collection at the Library, has been completed. Copies of the report are now in many scientific libraries in most countries of the world so that students of plants and plant life may know that these manuscript notes are available for further study and analysis.

Daddy Groff's influence will be felt for many more years.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Advanced Projects Research Agency	\$692,891	Crystal preparation research	Rustum Roy M. E. Bell C. W. Pierce
Penna. Milk Control Commission	9,495	Research on changing market structures in market milk industry	T. H. Chang R. A. Olsen
Chemagro Corp.	1,000	Face fly control on cattle	----- A. H. Waynick
Ingersol Milling Machine Co.	4,000	Random activity analysis camera	Simon Belasco
Atomic Energy Commission	25,000	Ionizing radiation action on microorganisms	Arnulf Muan
U.S. Air Force	71,000	Ionospheric research	B. J. Howell
U.S. Office of Education	540	Institute for secondary school teachers of French	Arnulf Muan
American Iron and Steel Institute	20,200	Equilibrium studies of mineral systems	W. R. Buessem
Office of Naval Research	3,264	Equipment for seismic research	Rustum Roy
American Iron and Steel Institute	10,000	Fellowship in earth sciences	A. S. Hunter
Office of Naval Research	19,500	Purchase of precision integrated optical and x-ray apparatus	C. J. Noll
Penna. Farm Bureau Coop.	500	Lime research	F. A. Hummel
Diamond Alkali Co.	300		F. H. Lewis
The Pfauher Co.	4,700	Permutit fellowship in ceramic technology	R. J. Hutnik
Niagara Chemical Div. EMC Corp.	500	Diseases of deciduous fruits, at Arendtsville	R. E. McDermott
National Science Foundation	13,200	Energy relationships in forest communities.	H. L. Hartman Ferdinand Brickwedde
American Petroleum Institute	8,000	Mechanics of penetration in rock drilling processes	Grace Henderson
American Cyanamid Co.	3,000	Instruction in chemistry, chemical engineering, and related sciences	A. M. Jacobs
General Foods Fund, Inc.	varied	Two fellowships in home economics	E. S. Kenney
Atomic Energy Commission	35,000	Equipment for nuclear science and/or engineering program	F. J. Remick J. J. Kaufman
Ford Foundation	12,009	Faculty research fellowship	W. M. Glass
Penna. Dept. of Highways	12,000	Construct and install goniometer	E. H. Ludwig
U.S. Public Health Service	20,664	Training program in general microbiology	E. C. Pollard
ibid.	78,588	Training program in biophysics	K. O. Stephenson
Monsanto Chemical Co.	5,000	Equipment for fruit and vegetable mechanization	R. W. Lindsay
Bethlehem Steel Co.	800	Cooperative program in metallurgy	F. N. Hewetson
Geigy Agricultural Chemicals	200	Herbicides	J. C. Johnson
Department of the Navy	132,155	Added funds—operation of Ordnance Research Lab	B. A. Whisler
Michael Baker, Inc.	7,000	Loading frame for structural engineering lab	R. E. McDermott
Penna. Dept. of Forests and Waters	10,000	Maple tree canker disease	F. A. Wood
Pennsylvania Turfgrass Council	200	Bluegrass disease studies	J. R. Bloom
American Cyanamid Co.	200	Tomato studies with nitrogen fertilizing	E. L. Bergman
Shell Chemical Co.	1,500	Pesticide residues on agricultural crops	D. E. H. Frear
American Can Co.	3,000	Mushroom processing	F. M. McArdle
Corning Glass Works	600	Increase stipend of fellowship in ceramic technology	M. E. Bell
Penna. Turfgrass Council	2,500	Turfgrass soil modification	J. M. Duich

faculty BULLETIN

Vol. 50, No. 1 July 6, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Bishop to speak



Bishop Lilje

Dr. Hanns Lilje, Bishop of Hannover, W. Germany, will speak on "The Splendor of the Universe — A Christian Concept," at the weekly Chapel Service Sunday, July 15, at 9 a.m. in Schwab Auditorium. He will also address a dinner meeting

U.C.A.-sponsored Saturday evening.

From 1935 to 1944, Bishop Lilje was general secretary of the Lutheran World Convention. In August, 1944, he was arrested by the Gestapo and confined in a Berlin prison during the air raids. Tried in January, 1945, by the "Supreme People's Court" he was sent to Nuremberg prison. In the book, "Im finster Tal," (The Valley of the Shadow), Bishop Lilje gives his impressions of the nine months he spent in the prison.

In 1947, he was elected Bishop of the Lutheran Church in Hannover and two years later vice-chairman of the Council of the Evangelical Church in Germany. In 1952 he became President of the Lutheran World Federation and in 1955 Presiding Bishop of the United Evangelical Lutheran Church in Germany.

Since the New Delhi meeting, he has been a member of the executive committee of the World Council of Churches.

In addition to the book on his
(Continued on page four)

Added Funds Announced

Additional funds amounting to \$296,000 have become available to the University through a provision in the 1962-63 appropriation bill which gave Penn State eight per cent of the Commonwealth's General Fund revenues in excess of estimates for the 1961-62 fiscal year.

Radio Broadcasts

Station WDFM, the FM-student operated radio outlet from the campus, is carrying on a full program operation during the Summer Term. Emphasis on live shows includes several productions involving faculty members.

Ralph W. McComb, University librarian, presents "Bookmark," Monday at 9 p.m. in which news of the literary world is featured.

Ellis Grove, Theatre Arts, conducts "Waxworks," a program of older popular music, Tuesdays at 9 p.m.

Each Wednesday, Dr. Leonard Raver, Chapel organist, is heard in "The Pleasures of Music," also at 9 p.m. and on Thursdays, Samuel P. Bayard, professor of English, is featured in "Folklore—Word and Song."

The daily programming of the station is from 7 p.m. to midnight.

Land Grant

A speech by E. L. Keller, director of Continuing Education, and an article by Thomas Hammonds, Continuing Education editor, were introduced into the Congressional Record June 27 by Senator Wayne Morse of Oregon.

Senator Morse was paying tribute to the Land Grant Centennial when he introduced the speech by Keller, titled "Significance of the Land-Grant Movement," and the article by Hammonds on the Centennial.

Support of the Bill (S. 3477) known as "General University Extension Education Act of 1962," was asked by Sen. Morse. The bill would provide modest financial support to states having Land-Grant or state universities conducting approved general extension programs.

Thurber at Mateer

A representative selection of James Thurber stories and fables, adapted for the stage by the author, is the next presentation by the Mateer Playhouse Company beginning Tuesday, July 17 under the title, "A Thurber Carnival."

The two-week run of the production, which was a Broadway success of 1960, is the first attempt at musical review in the Mateer history. With a background of Thurber drawings,
(Continued on page four)

President Walker has announced that the additional money will be used primarily to match National Science Foundation funds for laboratory and research equipment and to purchase equipment for the research program in the disposal of sewage and other wastes.

The NSF provides funds on a 50-50 matching basis to purchase equipment for expanded research and instructional programs in the sciences.

President Walker said, "No state university is under greater pressure than we are to expand its instructional and research programs. It is gratifying to have the Legislature and the Governor thus recognize and support our unique relationship to the Commonwealth."

NEWS IN BRIEF

CANCELLED: There will be no meetings of the Graduate School Faculty during the Summer Term, Dean H. K. Schilling has announced.

GRANT: Dr. Wilma H. Lehmann, assistant professor of zoology, is participating in an Institute of Comparative Anatomy at Harvard University under a National Science Foundation Grant. The Institute runs until Aug. 10.

LECTURE: Dr. Helge Larsen, The Technical University of Norway, in Trondheim, will speak on "Extreme Halophilism in Bacteria," July 30 in the Biological Science Lecture Series.

CONSERVATION: Penn State is a pioneer in the field of conservation education programs, the current laboratory being the 17th since World War II. Dr. H. Seymour Fowler, associate professor of nature education, is now director of the program, which was begun by Dr. George J. Free, professor of education, with the help of sportsmen's clubs and other interested organizations in 1946.

RECITAL

A vocal and instrumental recital will be given Sunday, July 15, at 8 p.m. in the HUB Assembly Room with Dr. Leonard Raver, Chapel organist, at the harpsichord, songs by Raymond Brown, associate professor of music, and James Martin, graduate student in music, as flutist.

No tickets are required and the program is open to the public.

SENATE MINUTES

MEETING OF JULY 3, 1962

The University Senate met at 3:55 p.m. on Tuesday, July 3, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the June 5 meeting were approved as printed in the Faculty Bulletins for June 15 and 22, 1962. One hundred thirteen senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (H. R. McCulloch), V. V. Aspaturian (K. C. Beasley), Ben Euwema (M. B. Cramer), J. H. Ferguson (W. R. Monat), W. R. Grubbs (J. A. Sullivan), C. F. Hager (H. W. Simington), Coleman Heipel (J. E. Pixton), M. W. Humphrey (E. B. Hale), M. W. Isenberg (G. H. Albright), R. C. Maloney (H. J. O'Brien), E. C. Pollard (Wayne Webb), C. I. Noll (P. S. Skell), C. G. Reen (J. B. Nesbitt), E. B. Richie (W. R. Geelan), L. Jeanne Riebel (Janice Chennault), W. C. Robinson (W. E. Mason), L. D. Tukey (E. L. Bergman), B. E. Voss (A. V. Kozak), and G. F. Wislicenus (J. L. Lumley).

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as Appendix "A". He moved that the proposals listed under Items 1 A and 1 B be adopted. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. G. Rayback, Chairman of the Senate Committee on Military Instruction, stated that the Faculty of the College of the Liberal Arts had asked that the report which had been distributed with the agenda as Appendix "B" regarding the request of the College of the Liberal Arts concerning ROTC instruction be tabled until the October meeting of the Senate. He stated that the College would like to circulate additional material to the members of the Senate before the opening of the Fall Term. The Committee members whom he had contacted had no objection to tabling this proposal but reserved the right to re-examine any additional material. Mr. Rayback moved that the report of the Senate Committee on Military Instruction be tabled until the October meeting of the Senate. The motion was seconded and passed.

B. A. Whisler, Chairman of the Senate Committee on Rules, presented the report which had been distributed with the agenda as Appendix "C". This report contained a recommendation to amend Rule J-3 of the Senate Policies and Rules for Undergraduate Students by adding "or the director of his Commonwealth Campus" to the second sentence. Mr. Whisler moved adoption of the amended rule. The motion was seconded and passed. Rule J-3, as amended, now reads:

J-3. A student may not add a course to his schedule after the first ten calendar days of a term. A student may drop a course after the first ten calendar days of a term only upon written

approval of the student's dean or the director of his Commonwealth Campus. Such authorization shall be given only under extraordinary circumstances; unsatisfactory scholarship in itself will not be considered an extraordinary circumstance.

L. H. Lattman, Chairman of the Senate Committee on Student Affairs, presented the report which had been distributed with the agenda as Appendix "D" relative to a Uniform Code of Judicial Policy. In order to clarify the judicial policy of the Senate and clearly state the rights of students involved in disciplinary actions the Senate Committee on Student Affairs proposed that a new Rule W-16 be added to the Senate Policies and Rules for Undergraduate Students. Mr. Lattman moved that the recommendation of the Committee be adopted. The motion was seconded and after discussion was passed. Rule W-16 now reads:

W-16. a. Any student summoned before a judicial group consisting in any part of his peers and including the Senate Subcommittee on Discipline shall have the following rights:

The charges preferred shall be sufficiently specific to reasonably inform the student of their nature and to enable him or her to understand and to prepare and to present his or her defense to them. They shall be furnished in writing to the student sufficiently in advance of the hearing upon them to afford a reasonable opportunity to prepare for the presentation of his or her defense at it.

He or she shall have the right to call a reasonable number of witnesses in his or her own behalf.

The testimony of unknown or unidentified accusers or witnesses shall not be admissible. The accused shall have the right to cross-examine any or all of his or her accusers who can reasonably be expected to attend the hearing.

b. Any student shall have the right of appeal from the action of a student judicial to the Senate Committee on Student Affairs, Subcommittee on Discipline. The judicial body must inform the student of this right.

c. Student tribunals may impose any disciplinary action up to and including office probation subject to review of the Dean of Men or Dean of Women.

A student tribunal may recommend any disciplinary action beyond office probation.

In the event they recommend disciplinary probation this action shall be confirmed by the Dean of Men or the Dean of Women with the concurrence of the Chairman of the Subcommittee on Discipline and the academic dean of the student's college.

In the event the student tribunal recommends disciplinary action more severe than disciplinary probation, this recommendation will be reviewed by the Senate Subcommittee on Discipline.

The Dean of Men or the Dean of Women shall have the right to bring any case before the Senate Subcommittee on Discipline whether or not it has been heard by a tribunal.

The next regular meeting of the University Senate will be on August 7, 1962; the agenda will be distributed on July 24, 1962. The meeting adjourned at 4:10 p.m.

Robert G. Bernreuter
Secretary

Personnel Matters

Dr. Richard H. Jahns, associate dean of the College of Mineral Industries, will succeed David R. Mitchell as dean of the College August 1.

Dean Mitchell, who has held the post of chairman of the Division of Mineral Engineering for the past 18 months as well as that of dean, will devote full time to the mineral engineering position.

Dr. Jahns joined the faculty in 1960 as professor of geology and chairman of the Division of Earth Sciences and was named associate dean Feb. 1 of this year.

A native of Los Angeles, Dr. Jahns was graduated with honors from the California Institute of Technology in 1935, received the master of science degree from Northwestern University and the doctor of philosophy degree in geology from Cal Tech in 1943. From 1937 to 1946 he conducted research with the U.S. Geological Sur-

vey and in 1946 joined the Cal Tech faculty, serving as professor of geology until he came here. He had served as visiting professor at Penn State in 1958.

Dean Mitchell has been a member of the faculty since 1938 and chairman of the Mineral Engineering Division since 1944. He received both bachelor's and master's degrees from Penn State and served both the Bethlehem Mines Corporation and the University of Illinois before joining the Penn State faculty.

Additions to the faculty announced recently include:

Mrs. Chrystle M. K. Wackerman, as assistant Extension Home Economist.

Melvyn B. Robin, as research assistant in chemical engineering.

Gerald Forrest Hall, as instructor in aeronautical engineering.

Dr. Marjorie M. Knoll, professor of family economics and home management.
(Continued on page four)



At the dedication of the new Dr. Otto Behrend Science Building on the Behrend Campus at Erie recently, Guy W. Wilson, chairman of the Advisory Board, laid the cornerstone, with Kenneth L. Holderman, coordinator of Commonwealth Campuses, center and Joseph Brennan, architect, looking on. The new building has incorporated in it a seven-office suite of rooms using the design developed by the Department of Physical Plant Planning and Construction and studied in 1960-61 in a full-scale model in McAllister Hall. A similar design is to be used in the addition to the Electrical Engineering Building.

Faculty Office Design Used

RESULTS of the Faculty Office Study completed a year ago by the Department of Physical Plant Planning and Construction and the Division of Academic Research and Services are already being used in a University building.

The new Dr. Otto Behrend Science Building, a one-story classroom and laboratory structure at the Behrend Campus in Erie and which will be ready for faculty occupancy in the Fall Term, contains seven two-man offices designed in the manner of those tested as models in McAllister Hall in 1960-61. (See Faculty Bulletin, Aug. 5, 1960.) A modification of the plan is also included in plans for the addition to the Electrical Engineering Building on the University Park campus.

A report of the study made in the Mac Hall "laboratory" has been published and distributed to college, university, and school systems administrators and to other interested designers and planners. The study and report were financed largely through grants provided by Educational Facilities Laboratories, Inc., a subsidiary of the Ford Foundation. A total of 5,000 copies of the report was printed and in only six weeks requests for the report have come from architects and educational administrators throughout the country.

The report describes the study as an attempt to devise an academic office for two faculty members, adequate but economical, with flexibility to adapt to many conditions of use. (Copies of the report may be obtained from the office of DARS, 405 Old Main.)

Members of the Speech and Slavic languages departments occupied the rooms during the experimental period of 16 weeks (and some have continued to do so) to evaluate the design. All had previously occupied offices accommodating many persons.

General reactions of the occupants, comparing the new design with that of their previous offices in the majority of cases gave these advantages to the experimental offices: greater mobility and flexibility, greater privacy, better facilities for student-professor conferences, greater opportunity for small group conferences, more attractive working environment, adequate book shelves and file space, and excellent waiting-conference space.

Complaints registered by some individuals were largely those resulting

from the temporary nature of the experimental model construction: poor ventilation, too noisy, inadequate lighting. Other criticisms included: lack of ideal privacy, somewhat more space needed for conferences, and insufficient storage space.

Construction of the "full scale model" was of temporary nature in the experiment, the rooms being developed inside the main floor area of Mac Hall and without outside lighting or ventilation. A fan was used to remove air from the rooms but it proved to be too small. Such objections would be eliminated in permanent construction.

Comments from faculty members who visited and evaluated the "models" included the following:

"... informal attractive waiting rooms conducive to improved faculty and student morale." (The "suite" for each pair of faculty members included an area for interviews or conferences, or for other study.)

"... pleasant areas for informal conferences."

"... the layout will tend to build greater cooperation among the staff."

"... good utilization of space."

"... adaptable in special arrangements to meet needs of a variety of people's tastes."

Unfavorable reactions, other than those applying to furniture and construction materials, both of which could be altered easily, were:

"... secretary too far away."

"... waste of space in waiting room."

"... space for files too limited."

Many features which would adapt the design to a large building were not part of the experiment but have been considered by the designers, Walter H. Wiegand, John D. Miller, James M. Cartey, and Angelo R. Bigatel, of the Physical Plant Planning and Construction Department. For example, an office building using combinations of the models studied could have incorporated many special facilities, such as a larger conference room, without altering the basic module size.

In the experiment, three different arrangements of furniture and facilities were studied. Curiously enough, the design which drew the most praise from visitors was also the design which separated the two faculty members by the greatest distance. The experimenters drew no conclusion as to the why of this.

PERSONNEL —

(Continued from page two)
agement at Cornell University has been named professor and head of the department of home management, housing, and home art, effective Sept. 1. Delpha E. Weisendanger, who has been head of the department on a part-time basis, will devote full time to her duties as assistant dean of the College of Home Economics. Dr. Knoll, who has taught at Michigan State as well as Cornell, was granted both bachelor's and master's degrees by the University of Nebraska and the doctor of philosophy degree by Cornell.

Dr. William M. Lepley, director of the department of psychology laboratories, plans to visit psychology laboratories in this country and abroad and study at Trinity College, Dublin, Ireland, during a leave of absence for the 1963 Spring and Summer Terms.

Frederick N. Esher, assistant professor of engineering at the Hazleton Campus, will be on leave until June 30, 1963 to work in mechanical design and development work at the International Business Machines Corporation at Yorktown Heights, N. Y.

BISHOP LILJE —

(Continued from page one)
Nuremberg experiences, Bishop Lilje has also written several books, articles, and pamphlets on studies in Martin Luther. He is publisher of the weekly periodical, "Sonntagsblatt."

Saturday evening, Bishop Lilje will speak on the subject, "Germany Today," at a dinner meeting in the HUB dining room at 6 p.m. Cost of the dinner is \$1.50 and reservations may be made at the UCA office, UN 5-7627.

THURBER —

(Continued from page one)
the typical Thurber characters—Walter Mitty, the "pistol packing" Red Riding Hood, the mixed-up Gen. Grant who surrenders to Gen. Lee at Appamatox—all come to life.

Directed as usual by Max Fischer, the cast includes regulars Esther Benson, Leon B. Stevens, David Frank, and Lydia Bruce, as well as Mateer newcomers Max Gulack and Kay Frey, and apprentices Robert J. Valanty, Marvin Greene, and Grace Shearer.

Music will be by the Jean-Ann Trio. Reservations may be made at the box office, UN 5-7586, between 10 a.m. and 6 p.m. and at North 7-4211 after 6 p.m.

Research Note

Nearly a thousand students and area residents were given medical ear examinations and controlled hearing tests in a survey conducted over a 10-year period by Dr. John F. Corso, director of the Human Factors Research Program. Among the results obtained was the determination that the hearing of women is more acute on the average than that of men: that hearing loss onset occurs later in women than men but proceeds at a faster rate after onset; and that the rate of hearing deterioration in women is a fairly uniform function of age but the rate for men varies. These and other conclusions will be reported at the Fourth International Congress on Acoustics in Copenhagen, Denmark, Aug. 21-28.

CALENDAR

Friday, July 13

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Graduate Student Association square dance, 9:30 p.m., V.F.W. home. Faculty invited.

Saturday, July 14

U.C.A. dinner, 6 p.m., HUB dining room "A." Speaker Bishop Hanns Lilje, Bishop of Hannover, W. Germany, on "Germany Today."

Mateer Playhouse, concluding performance of "Tiger at the Gates," by Christopher Fry, 8:40 p.m.

Sunday, July 15

Chapel Service, 9 a.m., Schwab Auditorium. Bishop Hanns Lilje, on "The Splendor of the Universe—A Christian Concept."

Tuesday, July 17

Curtis String Quartet concert, 8 p.m., Schwab Auditorium.

English Colloquium, 7:30 p.m., Nittany Lion Inn. Philip Young, professor of American literature, on "The Mother of Us All: Pocohontas Reconsidered."

Opening night of Mateer Playhouse production of "The Thurber Carnival." 8 p.m., Standing Stone. Concludes July 24.

Wednesday, July 18

International Film showing, 3 p.m. and 7 p.m. "A Nous La Liberte."

Friday, July 20

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

Foreign Language feature film, 7:30 p.m., Room 111 Boucke. "Los Olvidados."

COLLEGIAN

William E. Deibler, 1959 graduate of the University and editor of the Homestead, Pa., Daily Messenger, has been appointed executive secretary of Collegian, Inc., publisher of the Daily Collegian and The Summer Collegian.

His duties will include advising the business and news staffs of the student-operated newspapers.

faculty BULLETIN

Vol. 50, No. 2 July 13, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

Je 20, 1962

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

FRIDAY, JULY 20

Mateer Playhouse production of "A Thurber Carnival." 8:40 p.m., Standing Stone. Continues until July 28.

Interlandia folk dance, 7:30 p.m., Room 302 Engineering "D."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. J. P. Roberts, University of Leeds, England, on "Diffusion of Water in Silica Glass."

SUNDAY, JULY 22

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Trevor Watt, Sydney, Australia, on "Love and Reconciliation."

Summer Band Concert, 7 p.m., Pattee Library steps, James W. Dunlop conducting.

TUESDAY, JULY 24

NDEA Summer Language Institute lecture, by Carlos A. Astiz, on "Subdesarrollo politico-economico en la America Latina, Argentina, un caso," 8 p.m., Home Economics Living Center.

WEDNESDAY, JULY 25

International Film Committee showing of "The White Sheik," 3 p.m. and 7 p.m., HUB Assembly Room.

THURSDAY, JULY 26

Foreign Language film, 7:30 p.m., Room 111 Boucke. "Monsieur Vincent," starring Pierre Fresnay.

FRIDAY, JULY 27

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Thurber carnival

Tickets are still available for the second week's run of "A Thurber Carnival" at Mateer Playhouse. Concluding night is Saturday, July 28. Reservations may be made by calling UN 5-7586 from 10 a.m. to 6 p.m. or Standing Stone exchange, NO 7-1211 after 6 p.m.

Mont Alto program broadened

The academic program at the Mont Alto Campus will be broadened in 1963 to include several two-year associate degree programs and the freshman year of some four-year programs.

Henry H. Chisman, professor of forestry, has been named the new director of the Campus and will begin residence duties there next summer.



Chisman

A two-year curriculum in forest technology, now in the planning stages, is expected to be offered at the Mont Alto Campus and two-year programs in surveying technology and in drafting and design technology will also be given. The forest technology work will be designed to train forest technicians for employment by industry and governmental agencies.

Forest management and wood utilization programs leading to the bachelor of science degree will continue to be conducted at University Park but some of the freshmen enrolled in these curriculums will be among those at Mont Alto.

Mont Alto will be used in succeeding summer terms as the site for the forestry camp program.

Chisman is a 1932 graduate of Penn State and obtained his master of forestry degree at Duke University in 1939. He has served the University since 1935.

Auto insurance

Drivers of University-owned vehicles involved in an accident should immediately report all pertinent details, as called for in the accident report form, to Ray Reed, 230 W. College Ave., State College, representative of Allstate Insurance Co.

Allstate is currently the insurer of such equipment, which includes, cars, trucks, tractors, and certain self-propelled miscellaneous machinery.

If it is not feasible to make the report to the local office, advises C.R. Barnes, University controller, the nearest claim office of the Allstate Insurance Co. should be contacted. The location of the nearest office is indicated on the insurance card carried in all vehicles.

Any accident resulting in bodily injury or in property damage exceeding \$100 must be reported also to the Bureau of Highway Safety, Harrisburg, within 24 hours. Any Allstate agent will assist drivers reporting accidents in completing the necessary report forms.

Theatre lecture

Harold Clurman, noted critic and theatre director, will lecture on "Contemporary Theatre Trends" Sunday, July 22 at 8 p.m. in the Hetzel Union Building ball room, sponsored by the School of the Arts.

A graduate of Columbia University and the Sorbonne, Clurman has had a long and distinguished career in the theatre from modest beginnings as actor and stage manager in 1924 to such awards for his work as the French Legion of Honor, and honorary doctor of letters degree from Bard College, and the George Jean Nathan Award for Dramatic Criticism in 1959.

In between were many years of successful work. He was play-reader for the Theatre Guilding 1929-31, co-founder and director of the Group Theatre, 1931-41; Hollywood producer-director, 1941-44; critic for Tomorrow magazine, 1946-52; New Republic theatre critic, London Observer, 1959.

Clurman is the author of "The Fervent Years" (1945), "Lies Like Truth" (1959), and "Clurman on Direction" (1961).

The long list of plays he has directed include Clifford Odets' "Golden Boy," William Inge's "Bus Stop," and Shaw's "Heartbreak House."

He will be a guest of the theatre arts department during his stay.

Sieg banquet

Members of the faculty and staff who plan to attend the dinner to be held in honor of William W. Sieg, of Bellefonte, on Thursday, July 26, may secure tickets on the campus from the Penn State Alumni Association, 104 Old Main. They may also be purchased at Jack Harpers or at the First National Bank.

Mr. Sieg, a member of the Class of 1922, is a Distinguished Alumnus of the University. He will retire as president of the Titan Metal Manufacturing Co.

The dinner, which is sponsored by Mr. Sieg's friends and associates, will also celebrate his birthday. It will be held at the Bellefonte Y.M.C.A., 6:30 p.m. Tickets are \$5.00.

PERSONNEL MATTERS

William H. Neeley, associate director of development at Hastings College, Hastings, Neb., and for many years civic leader and business executive in Pittsburgh, has been named director of fund raising. He will direct all of the University's private fund raising activities, including the Alumni Fund and the Development Fund. He is a graduate of Westminster College, which he served for many years as a trustee and for which he was active in fund-raising drives.

Dr. Elmer W. Borklund, member of the English faculty at Cornell University, has been named assistant professor of English. He received bachelor of arts, master of arts, and doctor of philosophy degrees in English literature at the University of Chicago.

Three appointments to the department of political science have been made for the Summer Term: Dr. Charles A. Hollister, associate professor of political science at Bucknell, as visiting associate professor; Dr. Morton J. Frisch, associate professor of political science at William and Mary, as visiting associate pro-

fessor; and Dr. Tedensz Cieplak, assistant professor of international relations at San Francisco State College, as visiting assistant professor.

Dr. Burton E. Squires, Jr., assistant professor of physics at Knox College, Galesburg, Ill., is serving as temporary research associate at the University Computation Center for the Summer Term.

A. William Hajjar, professor of architecture, will be on leave for a year, until June 30, 1963, to practice in the architectural firm of Vincent Kling, in Philadelphia.

Dr. R. Wallace Brewster, professor of political science, has been granted a leave from Sept. 1 to June 30, 1963, to serve as visiting professor of political science at Haverford College.

Dr. Paul L. Michael, associate professor of engineering research, has been granted a year's leave of absence to work at the Institute of Gas Technology, Chicago, Ill. He will work both here and in Chicago helping to make ready for production a gas leak detector for pipe mains which he helped develop as consultant to the Institute.

Leo J. Blumle, instructor in electrical engineering, will spend the next academic year working at the National Aeronautics and Space Administration in Greenbelt, Md.

J. William Caldwell, associate professor of industrial engineering, is conducting four two-week programs in Guatemala, Nicaragua, Colombia, and Costa Rica. The programs were developed to stimulate interest in the fundamental considerations of good industrial management practices through the U. S. Assistance for Industrial Development and the Productivity Centers of the four countries.

Harold P. Zelko, professor of speech, is serving for the summer as visiting professor of speech at Long Beach State College, in California.

Dr. Jerome K. Pasto, associate director of resident education in the College of Agriculture, is currently making a three-week preliminary economic survey of a potential agricultural area at the request of the Venezuelan government and the Inter-American Committee for Agricultural Development.

Leaves have been extended for Ruth G. Botdorf, instructor in chemistry at Ogontz, and Martin Levine, assistant professor of general engineering, to permit them to continue with graduate work.

ITEMS OF INTEREST

Articles and Papers

ELLIS E. T., Ordnance Research Lab, "What You Should Know About Patents," in the June 11 issue of American Machinist Metalworking Manufacturing.

FERRARO, A. J., electrical engineering, with Tou, C. P., "Interpretation of Interference Fringes Observed on Swept Frequency Records," at the U.R.S.I. Conference, at Washington, D. C.

HAMILTON, R. N., botany, "Metabolism of Trizine Herbicides by Plants," at the Gordon Research Conferences on Biochemistry and Agriculture at New Hampton, N. H.

HANSON, BILL, studio art, "A Word of Wonder," in Aperture, publication devoted to photography as a fine art, issue 10:1, 1962. —"The Stars," reprinted in the 1962 program of the Fifth Annual UASREUR Science Fair, Frankford am Main, Germany, from Everyday Art.

HASSLER, W. W., JR., American history, "Gen. George B. McClellan in the Maryland Campaign of 1862," before the Hagerstown Civil War Round Table.

LECZAR, F. J., physics, "Factors Influencing the Reduction Rate of Hematite," in the March issue, Journal of Scientific and Industrial Research.

LLOYD, W. A., and FARLEY, C. W., chemical engineering, "Fission Fragment Irradiation of Methane," at the Boston meeting of the American Nuclear Society.

LUMLEY, J. L., aeronautical engineering, "The Constant Temperature Hot-Thermistor Anemometer," at a conference of the Hydraulic Division of the American Society of Mechanical Engineers.

MALLETIE, M. F., ag biochem, with A. Maretzki, "Nutritional Factors Stimulating the Formation of Lysine Decarboxylase in Escherichia coli," in the Journal of Bacteriology, No. 83, pp. 720-726.

—with Sarah B. McGrew, ag biochem, "Energy of Maintenance in Escherichia coli," in the same issue, pp. 844-850.

MOORE, J. H., civil engineering, with LEWIS, A.D.M., "Linear-Movement Air Gage for Detection of Concrete-Bond Failure" before the Spring meeting of the Society for Experimental Stress Analysis.

MORSE, J. M., English, "Augustine's Theodicy and Joyce's Aesthetics," in "Joyce's Portrait, Criticism and Critiques," edited by Thomas Connolly, published by Appleton-Century-Crofts.

NISBET, J. S., electrical engineering, "Possibility Study of a Separating Capsule Rocket Experiment for the Accurate Determination of Absolute Electron Densities to a Height of Several Thousand Kilometers," before the I.R.E. Region 7 Conference on Space Communications.

OLIVER, R. T., speech, "Syngman Rhee: A Case Study in Transnational Oratory," in the April issue of The Quarterly Journal of Speech.

PRYBYLA, J. S., economics, "The Soviet Theory of Social Consumption Funds during the Transition from Socialism to Communism" in the Southwestern Social Science Quarterly.

Band concert

James W. Dunlop, professor of music education, will conduct the Summer Band in a concert Sunday, July 22, at 7 p.m. on the steps of the Pattee Library.

The program will include:

The National Anthem

Accolade, by Donald I. Moore

First Swedish Rhapsody, by Erik Leidzen

Aria and Fugue, by Handel, arranged by Eric Osterling

The Three Debonairs, Trumpet Trio by Clifford P. Barnes

Holiday for Winds, by Glenn Osser

Golden Gate Overture, by Frank Erickson

Seascape, by Glenn Osser

Italian Polka, by Sergei Rachmaninoff, arranged by Erik Leidzen

Highlights from "Wildcat" by Carolyn Leigh and Cy Coleman, arranged by John Cacavas

The Blue Flame, by Leonard B. Smith.

HISTORICAL NOTE:

In 1939 the Artists' Course Committee announced that because of an unprecedented demand for tickets, patrons wishing to hear the Don Cossack Chorus would be able to purchase tickets in the foyer of Schwab Auditorium where they could hear, but not see, the performers. Both students and non-students were charged the prevailing price: \$1.25. (Tickets for the Artists Series of 1962 were also priced at \$1.25 and for some programs not all the seats were filled.)

Sewage

An application has been filed by the University to the Pennsylvania State Department of Health for a permit to expand the sewage disposal plant which serves both the campus and the borough.

The increase in size is planned in anticipation of a growing campus population in both the campus and borough. Since 1957, when the present plant was completed, the University has processed borough sewage. Capacity of the existing facility is 2,800,000 gallons daily and the first increment of expansion will increase the capacity to 4,800,000 gallons per days. Also, the new plant is designed to increase the removal of BOD from 85 to 95 per cent.

Expansion plans also call for modification of the present plant to add tertiary treatment, by addition of an aeration tank.

Plans for later construction call for two more treatment units to increase the plant capacity to 6,000,000 gallons per day.

Language lectures

Two lectures will be given next week in the NDEA Summer Language Institute, one of which will be open to the public.

Carlos A. Astiz, of the Penn State staff, will speak on "Subdesarrollo politico-economico en la America Latina, Argentina, un caso," Tuesday, July 24, at 8 p.m. in the Home Economics Living Center. The public is invited.

Dr. William G. Moulton, Princeton University, will speak Friday, July 27, at 7:30 p.m. in the HUB dining room "A," on "Linguistics and Language Drills."

Film showing

"Monsieur Vincent," a French film starring Pierre Fresnay, Aime Clariond, and Jean Debucourt, will be shown Thursday, July 26 at 7:30 p.m. in Room 111 Boucke as a foreign language feature film of the NDEA Summer Language Institute. The public is invited.

NEWS IN BRIEF

ART: Dr. Edmund Feldman, chairman of the division of art, New York State University College of Education, New Paltz, N.Y., will be the featured speaker of the 1962 Annual Summer Conference of the Penn State Graduate Club in Art Education. (Continued on page four)

SENATE MINUTES

ANNUAL REPORT

COMMITTEE ON FACULTY AFFAIRS

Meetings of the Committee:

The Committee held official meetings on Sept. 27, Oct. 16, Nov. 3, Nov. 10, Nov. 22, Jan. 8, Jan. 31, Feb. 15, Apr. 9, and May 22.

University Parking Policy:

The Committee investigated complaints from faculty members relative to the University Parking policy. Conferences were held with Albert E. Diem, Vice President for Business, and William C. Pelton, Director of Security. Through these conferences the Committee came to new understanding of the difficult problems involved in the regulation of traffic and parking on campus. During the past year there have been improved supervision of student-parking-permits and an increase in the quotas of "Floating Permits" granted to the various colleges.

Liability of Faculty Members for Injury

To Students While on Official Field Trips:

Clarification of the University's policy in this matter was secured from the University's Legal Counsel:

"Inasmuch as the University is both a governmental and charitable institution, it is not responsible for acts of negligence of its servants, agents, or employees.

"Full responsibility does not devolve on the individual instructor for he would not be responsible for the negligence of any other individual unless in the peculiar and remote circumstance that he specifically directed the act of negligence of another which would in essence be his own negligence.

"In every instance the University has directed this office to represent the faculty or staff member and to take all steps necessary and proper to provide him with complete protection. In no instance has this been at any expense to the faculty or staff member involved."

The Evan Pugh Land-Grant Centennial Dinner:

The Committee on Faculty Affairs, in cooperation with the University Land-Grant Centennial Committee, sponsored a banquet on Feb. 10 in honor of the memory and works of Evan B. Pugh, early President of the University.

Mileage Allowance for Use of Faculty Cars In University Business:

The Committee requested the University to increase the mileage allowance from seven cents per mile to eight and one half cents per mile for the use of the faculty member's private car when used in University business. The request was not granted due to the fact that the University now operates a fleet of cars sufficient in number to meet the needs of the University. If the University faculty member chooses to use his own car instead of a University car, he is granted seven cents per mile, the cost per mile to the University for operation of its own cars.

University Faculty Club:

The Committee developed a plan for a (Continued on page four)

INTERDEPARTMENTAL MAIL DELIVERY SERVICE

Effective July 9, 1962

ROUTE 1

Building	A.M.	P.M.
Atherton	8:22	---
Boucke	10:06	2:10
Burrowes	10:21	2:26
Dairy Breeding Res.	9:28	---
East Halls	9:12	---
Farm 3	9:23	---
Forestry	9:43	1:40
Frear	10:03	2:07
Graduate	10:27	2:32
Grad Circle Apts.	---	1:04
Grange	8:12	---
Hetzl Union	11:05	3:14
Home Economics	11:00	3:09
McAllister	10:55	3:00
McElwain	8:43	---
New Dairy Barn	9:20	---
Nittany 20	---	12:49
Old Dairy Barn	9:39	1:36
Old Main	a 8:02 ab 10:35 b 11:10	a 2:40 b 4:15
Osmond	9:59	2:03
Pollock A	8:39	---
Pollock Dining	8:48	12:52
Reactor	8:53	1:00
Redifer	8:28	---
Research Unit 3	8:57	1:06
Schwab	10:31	2:36
Simmons	8:34	---
Spence	---	2:17
Surplus & Salvage	9:17	---
Telephone	10:13	2:18
Temporary	8:15	1:50
Tyson	9:47	1:45
U. S. Pasture Res.	---	1:30
Veterinary Sci.	9:36	1:33
Wagner	9:32	1:25
White	---	1:52
Whitmore	9:52	1:55
a Delivery		
b Pickup		

ROUTE 2

Building	A.M.	P.M.
Agric. Ed.	10:38	3:12
Agric. Eng.	8:29	12:55
Armory	9:37	2:05
Armsby	10:26	3:00
Borland	8:24	12:52
Buckhout	10:47	3:21
Carnegie	9:55	2:23
Chemical Eng.	10:43	3:17
Conference Center	---	3:25
Continuing Ed.	9:23	1:51
Eisenhower Chapel	8:38	1:06
Electrical Eng.	9:19	1:47
Food	8:45	1:18
Hammond	9:01	1:27
Health Center	8:18	12:48
Hunt	---	2:46
Leete	8:32	1:01
Mechanical Eng.	9:16	1:44
Mineral Industries	9:28	1:56
Motion Pict. Studio	---	1:40
Nittany Lion Inn	---	1:14
Ordinance Research	8:51	1:24
Pattee	10:12	2:48
Patterson	10:33	3:07
Recreation	10:07	2:35
Service	8:49	1:22
Sparks	9:59	2:27
Special Ed.	---	1:10
Waring	---	2:40
Warnock	---	12:58
Water Tower	---	1:12
Weaver	10:22	2:56
Willard	9:40	2:08

SENATE —

(Continued from page three)

Faculty Club facility and sought information relative to the cost of such a facility were it to be erected as a single independent unit on campus or in conjunction with the expansion of the Hetzel Union Building or the Nittany Lion Inn. Having done so, the Committee was led to conclude that the cost would be such that the execution of such a plan would be impractical in the near future. It appears to the Committee that building such a facility would involve the costly duplication of facilities already available to faculty and staff in the Nittany Lion Inn. The Committee recommends that plans for the fuller utilization of the facilities and services of the Inn and of other facilities on campus be developed and made known to faculty and staff members through the publication of a suitable brochure dealing with such matters.

"Vesting" Privileges:

The Committee, with the advice of the officers of the Public School Employees' Retirement Fund and the help of members of the State Assembly, is seeking the amendment of Public Law 350 to allow for deferred benefits to Pennsylvania State University faculty members who discontinue their service to the Commonwealth for causes other than death or retirement.

Tuition-Reciprocity for Children Of Faculty Members:

The Committee is currently studying steps to take in securing "tuition-reciprocity" for children of Penn State faculty members who choose to attend other institutions of higher learning.

D. G. McGarey
Chairman

ANNUAL REPORT Committee on Athletics

During the 1961-62 academic year, the Senate Committee on Athletics met as a unit on five different occasions and on three additional occasions with the Athletic Advisory Board in order to establish policy and evaluate matters under its jurisdiction. The Committee reported to the Director of Athletics the ineligible list of athletes in each freshman and varsity sport as per Senate

and National Collegiate Athletic Association Rules. The Committee approved athletic schedules and gave its permission for the football team to participate in the Gator Bowl provided the team, coaches, and administration gave their consent.

The Committee through the Chairman continued to issue a memorandum to each student certifying that he had been off campus on a University approved trip—as a matter of information only.

The Committee recommended to the Rules Committee, after consultation with the Committee on Academic Standards, that the X-9 Rule be changed to read as follows:

"A student shall not represent the University in any intercollegiate athletic contest if, at the beginning of a term, he is deficient by more than 10 credits from normal progress. Normal progress is defined for this purpose as consisting of 11 credits earned for each term of residence."

The main purpose of this change was to put eligibility, from a normal progress viewpoint, on a university rather than a curriculum basis. The rule is essential in order to meet the NCAA requirements. The changed rule was approved by the University Senate at its meeting on May 1, 1962.

Two subcommittees, one on Off-Campus Athletic Contests and the other on the Elimination of Freshman Intercollegiate Athletics, submitted reports, which were received by the Committee, and the subcommittees were discharged. No specific recommendations were made at this time.

Richard Wilson (College of Agriculture); academic cumulative average—3.19, a Varsity football player for three years, was awarded the Eastern College Athletic Conference merit medal. The award recognizes the student who best combines scholarship with athletics during his college career.

The applications of Gannon College in Erie, Pennsylvania, and Trenton State College in Trenton, N. Jersey, were approved for membership in the NCAA.

In order to divest itself of some of the administrative functions, the Committee has requested the Director of Athletics to submit to it a performance report covering

these functions, in accordance with the Senate's regulations. The following letter was received from Dean Ernest B. McCoy on May 29, 1962:

"I, as the Administrative Officer of The Pennsylvania State University Intercollegiate Athletic program; state that the Department of Intercollegiate Athletics program; state that the Department of Intercollegiate Athletics, has performed this past year, 1961-62, completely within the precepts of the NCAA, the ECAC, the Senate X-Rules, and the policies of the Senate Committee on Athletics."

Again the Committee wishes to thank Mrs. Alice Royer and the Senate Secretariat for their assistance.

R. H. Wherry
Chairman

NEWS —

(Continued from page three)
tion today (Friday) and tomorrow. He will speak at 10:45 a.m. Saturday in the HUB assembly room.

PRINTS: Three prize-winning prints have been given to the University by the Society of American Graphic Artists to be added to the Dr. Warren B. Mack Memorial Collection established by gifts from the Society in 1955. Dr. Mack, wood engraver by avocation who exhibited widely, was professor and head of the department of horticulture at his death in 1952.

AWARDS: J. Cordell Hatch, agriculture extension radio editor, and Alice M. Murray, extension home economic editor, were recipients of awards at the recent annual meeting of the American Association of Agricultural College Editors. Hatch received the Pioneer Award given each year to outstanding information specialists under 36 years of age. Miss Murray received the 25-year service award.

faculty BULLETIN

Vol. 50, No. 3 July 20, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MRS. T. I. MAIRS
PATTEE LIBRARY

faculty BULLETIN

(Weekly Publication)
The Pennsylvania
State University

CALENDAR

FRIDAY, JULY 27

Interlandia Folk Dance, 7:30 p.m., HUB Ball Room.

SUNDAY, JULY 29

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. H. K. Schilling, dean of the Graduate School, on "The Meaning of the Lord's Day."

Concert by Dr. Leonard Raver, Chapel organist, Harry Owens, and Mary Jean Sakoski, 8 p.m., Schwab Auditorium. David Pinkham, guest conductor.

TUESDAY, JULY 31

Opening night of Mateer Playhouse production of Robert Penn Warren's "All the King's Men," 8:40 p.m., Standing Stone.

Foreign Language Feature film, "Las Aguas banjan turbias," 7:30 p.m., Room 111 Boucke.

MONDAY, JULY 30,

Biological Science Lecture Series, 3:55 p.m., Room 112 Buckhout. Dr. Helge Larsen, Technical University of Norway, on "Extreme Halophilism in Bacteria."

WEDNESDAY, AUGUST 1

Curtis String Quartet concert, 8 p.m., Schwab Auditorium.

International Film Committee showing of "Vitelloni," 7 p.m. and 9 p.m., HUB assembly room.

THURSDAY, AUGUST 2

NDEA Summer Language Institute lecture by Dr. Leonide Goldstein, Princeton University, on "Les contributions de la France aux connaissances scientifiques," 8 p.m., Chapel Lounge. Public invited.

Band concert, 8 p.m., Schwab Auditorium.

FRIDAY, AUGUST 3

NDEA Summer Language Institute lecture by Dr. Pablo Roca, Pan American Union, on "La enseñanza en las escuelas primarias de la America Latina," 8 p.m., Chapel Lounge. Public invited.

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

College Boards required

Admissions formula changed

THE University will continue to use a number of criteria in judging whether an applicant will be granted admission even though *all* baccalaureate students will be required to submit results of College Entrance Board tests, regardless of high school grades.

"College Boards, as they are popularly called, have aided us in determining the qualifications of many of our applicants for some years," says Dr. T. Sherman Stanford, associate dean of admissions. "By recent action, the University will require all applicants, including those in the highest 20 per cent of their high school class, to submit College Board test scores with their applications.

"In effect, our action simply re-emphasizes the need for standards by which all our applicants can be judged on an equal footing. College Board examinations are nationwide in scope and widely accepted as one measurement of a student's potential.

"High school ranking has served us well in the past but it has failed to recognize the differences between high schools and so we have searched for other criteria to go along with high school ranking or its equivalent. The changeover to College Boards has been gradual, and even now we will not rely on them exclusively because we believe that a single test is not enough evidence for best judgment."

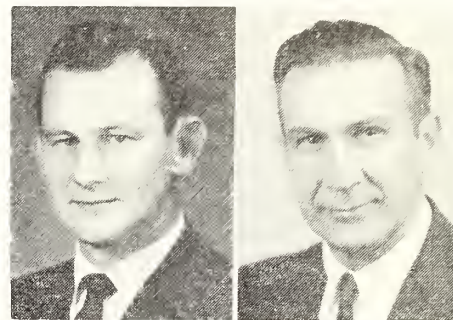
In addition to the "verbal" and "mathematics" College Board scores (Scholastic Aptitude Test or SAT scores), the Admissions Office is now using three other criteria in making its judgments: 1. high school average; 2. per cent of high school's graduates going to college; and 3. sex.

With these five criteria, calculations are made for each of the 18,000 applicants to determine a predicted grade average in both science and nonscience fields. The resulting averages are then used not only as a guide for admission but also to aid in counseling work.

VARIABLES WEIGHTED

The weights applied to each of the variables in the predicted-average formula are the result of much research by the Student Affairs Research Office, directed by Dr. Martin L. Ziegler. Information on freshmen applicants in 1958 was worked and reworked to develop the 1962 formulas, (but it is not assumed that the research is over; new studies are being constantly developed).

"The resulting calculated average," says Dr. Ziegler "has a standard error



Ziegler

Stanford

of about one-half a grade point. If a student's predicted average for a science curriculum is 2.1, the chances are two out of three that he will attain an All-University average in his freshman year of not higher than 2.6 nor lower than 1.6.

"Having calculated the average is not enough, however. His predicted average must be compared to those of many other applicants for science fields, or non-science fields as the case may be. Perhaps with all the applicants we will have found enough students with an average of 2.3 or better to fill our quotas, and so the student whose example we have selected would stand relatively little chance of getting into University Park campus as a freshman in a science curriculum.

"Even though he has indicated, however, that he wishes to take a science type of work, we calculate his predicted average for non-science work also. In some cases his chances of attaining a high enough average to warrant granting him admission may be much better in a non-science field than in a science curriculum."

One reason this may be true is that the applicant's "verbal" SAT score may be much greater than his "math" score. College Boards, which have become something of a symbol to high school seniors, are frequently misunderstood, not only by the student and his parents but by some people in the education field.

Technically speaking, College Boards involve many tests, not only of aptitude (SAT) but also 11 different fields of achievement. Both are used by many universities but SAT scores are the more commonly

(Continued on page three)

Mateer play

Robert Penn Warren's "All the King's Men," will open at Mateer Playhouse July 31 for a one-week run.

Directed by Max Fischer, who describes the play as a modern morality play peculiar to America, "All the King's Men" is the story of Willie Stark, a political dictator in a Southern state.

Leon B. Stevens portrays Willie Stark, with David Frank as Jack Burden, idealistic newspaperman. Lydia Bruce will play the wife of Willie and Esther Benson will be Sadie Burke. Other roles will be taken by Max Gulack, as Tiny Duffy, Kay Frey as Anne Stanton, and Ed Anderson as The Professor.

Tickets may be reserved by calling UN 5-7586 between 10 a.m. and 6 p.m. and Standing Stone Exchange NO 7-4211 after 6 p.m.

Lecturer

Dr. Frederick R. Matson, professor of archaeology and assistant dean for research in the College of the Liberal Arts, has been named the Distinguished Lecturer for the American Ceramic Society for 1962-63.

Speaking on the subject, "Potters and Brick Makers in the Near East—Ancient and Modern," Dr. Matson will deliver lectures to 24 local chapters of the Society throughout the country. He has already given lectures in Denver, Minneapolis, and Baltimore.

Dr. Matson has also been named a lecturer for the Archeological Institute of America for 1963 and will give nine lectures next spring in the west and southwest.

Associate degree

June graduates of associate degree programs are faring well in finding jobs. K. L. Holderman, co-ordinator of Commonwealth Campuses, points out as the result of a survey among the graduates.

More than 70 per cent of the nearly 450 graduates had accepted offered jobs before the Spring Term ended and 72 per cent of the 237 graduates who answered the question revealed that their starting salaries were to be \$400 or more per month. The median starting salary is \$430, 16 graduates have started at \$500 or more and the highest salary reported was \$625.

Between them, International Business Machines, Bell Telephone Laboratories, and DuPont Engineering Division have hired 78 of the graduates.

PERSONNEL MATTERS

Among recent appointments to the faculty are the following:

Dr. Hwa S. Nahn, as assistant professor of mathematics, who has been visiting assistant professor since the Fall Term. He is a graduate of Seoul National University, Seoul, Korea, and obtained his master of science degree in mathematics from the University of Oregon and doctor of philosophy in mathematics from the University of Illinois.

Dr. C. Andrew Carson, as instructor in veterinary science. He received the doctor of veterinary medicine degree from the University of Pennsylvania in May.

Charles K. Krantz, as instructor in history. He received the bachelor of arts degree in history from City College of New York and master of arts from the University of Connecticut. He is completing doctoral work at the University of Rochester. He has been a lecturer at Brooklyn College of City College of New York.

Dr. Gerald R. Barsch, as senior research associate in Mineral Industries, working in applied physics in the department of geophysics and geochemistry. Dr. Barsch, who conducted research at Penn State in 1951-52, was educated in Germany and has done extensive work in experimental physics, theoretical physics, and mathematics.

Richard G. Rose, as instructor in engineering mechanics. He was granted degrees by the University of Liverpool, England, the bachelor of science in physics, mathematics, and applied mathematics, and master of science in physical metallurgy.

Chauncey A. Morehouse, as instructor in physical education. He received the bachelor of science degree in physical education from Springfield College and master of science from Penn State. He was assistant professor of physical education at Lock Haven State College before coming to Penn State.

Dr. John A. Searles, as associate professor of secondary education. A graduate of Carleton College, he received master of arts in political science and doctor of education degrees at Stanford University. He taught in schools at Waldorf, Minn., Cannon Falls, Minn.,

Curtis concert

The next concert by the Curtis String Quartet, one of the country's oldest and best known concert ensembles, will be given Wednesday, Aug. 1, at 8 p.m. in Schwab Auditorium.

Leaves of absence have been announced for the following members of the faculty:

Bernard H. Carson, instructor in aeronautical engineering, from June 16 to June 15, 1963, to conduct research leading to his doctorate, in the area of gas dynamics.

Dr. Gerald M. Moser, associate professor of Romance languages, for the Winter and Spring Terms to go to Portugal under a Fulbright grant to complete his studies on ideas on colonialism.

Dr. John F. Hall, professor of psychology, from July 23 to Sept. 9 to teach a course in introductory psychology and in motivation at the University of California at Berkeley.

Dr. Jeannette Veatch, associate professor of education, from July 1 to Sept. 15 to work on a textbook for the teaching of reading and for lecturing at other schools in the east.

Harry H. West, instructor in civil engineering, July 1 to Dec. 31 for military service.

Sunday concert

Dr. Leonard Raver, Chapel organist, with graduate students Harry Owens, timpani, and Mary Jean Sakoski, percussion, as guest artists, will present a concert Sunday, July 29, at 8 p.m. in Schwab Auditorium.

Daniel Pinkham will conduct for his own composition, "Concertante III for Organ and Percussion," which was commissioned by the Boston Chapter, American Guild of Organists.

Also to be featured is Charles Wuorinen's "Evolutio," which was composed in 1961 in dedication to the memory of Lili Boulanger and introduced by Dr. Raver.

The first part of the program will feature works by Bach, including the Fantasia in G major, Trio Sonata IV, two choral preludes, and Passacaglia and Fugue in C minor.

The program will conclude with Henk Badings's Passacaglia for organ and timpani.

Biological lecture

Dr. Helge Larsen, of the Technical University of Norway, will speak on "Extreme Halophilism in Bacteria," Monday, July 30, at 3:55 p.m. in Room 112 Buckhout. The talk is part of the Biological Science Lecture Series.

Dr. Larsen spent several years working with the green sulfur photosynthetic bacteria in the laboratory of Dr. C. B. VanNiel.

Retirement

General information has been distributed concerning Act 598 of the Pennsylvania General Assembly relative to the purchase of retirement credit for previous out-of-State service in the field of education.

The following are points of particular interest regarding the Act, in so far as it applies to University administrators, teachers, or instructors:

1. Application for credit may be made for out-of-State service as administrator, teacher or instructor in any public school or institution in the states, territories, or areas under the jurisdiction of the U. S. Government, except Pennsylvania, or in the field of education for any agency or department of the government of the United States whether or not the area served was under the jurisdiction of the U.S., including Federal service in Pennsylvania.

2. The maximum number of years of credit for which a member is eligible is the smallest of (a) ten years of out-of-State credit; (b) number of years between the age of the applicant at the time he became a member of the State Retirement System and his superannuation retirement age of 60; and (c) the number of years he has been a member of the State Employees' Retirement System.

3. The applicant for the service credit must pay both the member's share and the State's share of the member's retirement benefits.

4. The money contributed for the member's share and the State's share accumulates annual interest as provided by the SERS Code.

5. The member will pay the amount due in lump sum or over a period of years by having the regular retirement payroll deductions of the employee increased by not less than a third of the regular monthly deduction. The amount deducted must be sufficient to pay the total amount due by the time the member reaches superannuation retirement age.

6. A member is not eligible to receive credit for service performed out-of-State for which he receives or is eligible to receive a retirement allowance based on the out-of-State service. Also, a member of SERS who joined after June 1, 1961, may not have forfeited the right to receive a retirement allowance based on out-of-State service accrued at the time of his separation from employment.

Additional information and application forms may be obtained from John V. Pezzoni or Rudy J. Labor, 304 Old Main, 5-6521.

ADMISSIONS —

(Continued from page one)

accepted guides for admission. Today some 425 colleges and universities are members of the College Entrance Examination Board, and presumably use the test scores, and several hundred others, although not members, make regular use of the scores in their admissions work.

Both SAT and achievement test scores are desired by some universities not only for admissions work but also for scholarship and counseling programs. Their greatest value, in addition to the fact that much research has gone into their composition and scoring, is that they have uniform application, that a student in California takes the same test as an applicant in Pottsville, Pa.

So widely accepted are College Boards today that many high school students take more than one examination, the first time for the experience. Repeated evaluations have shown, however, that students rarely improve their scores very significantly by practice alone and sometimes the second test results are poorer than the first.

SAT scores are based on a maximum of 800 for each of the two parts and are reported as, for example, 450 verbal, 485 math. Total scores in the 1500s have been attained by many students, but perfect scores are rare. Average total scores are meaningless, since each college or university sets its own standard of admission.

EXAGGERATED IMPORTANCE

"I believe, however, that over the years an exaggerated importance has been given to the exact scores on each of the two parts of the test," says Dr. Stanford, "not by admissions officers or educators generally but the lay public. The standard error of measurement on each part is probably around 35 points, which means that a 485 score should be interpreted to mean that in repeated tests the student would score somewhere in the range of 450 to 520.

Penn State's evaluation of a student's potentiality does place considerable importance on College Board scores but also on other criteria as well. The high school average (calculated for his first three years in high school, usually all that is available at time of application) also weighs heavily because it is the basic record of past achievement. Students with great potentiality and little proof they can or do use their abilities have been poor college risks.

The high school average, which is calculated on a Penn State basis of grading, fails to take into account the quality of the high school, however. One measure of a high school's effectiveness for preparing students for college has been shown to be the percentage of the school's graduates going to college, the theory being that schools which have a high percentage of college-going graduates tend to strengthen their college-preparatory work and emphasize the courses most applicable to college by hiring the better teachers for those courses.

Although the average college-going population in Pennsylvania is currently a little over 25 per cent, many schools are well over 50 per cent and some are as high as 75 per cent.

The remaining factor Penn State uses to predict the student's college record is sex, in view of the fact that repeated studies have shown women students consistently do better work in some curriculums than they do in others; so do men students. Consequently, there are in effect two different formulas for calculating predicted average, the weight attached to the sex factor being different for men and women in both science and non-science work.

The mass of data about each student is given to electronic computers, since the calculations would take too long by human methods.

"But," emphasizes Dr. Stanford, "no computer ever admitted a student or denied him admission. The calculations are simply a guide for the admissions people, particularly in the borderline cases."

Student Affairs Research is continuing its studies in weighting and is making further studies on other factors which might be used in the formula. For example, Dr. Zeigler is currently considering whether the applicants' record in "core subjects" (such as math, history, chemistry, etc.) might be a guide instead of the total high school average currently used, on the theory that some students' records are best in areas which have little to do with college work.

"The entire purpose," says Dr. Stanford, "is to determine whether the students with the best potentials are admitted. We can't justify any other procedure when we have so many more applicants than we can possibly admit.

"Today, most students entering are first or second fifth students in high school. In the future with more students coming from the higher fifths, high school ranking will be even less meaningful."

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
International Business Machines	460	Two oscilloscopes and power supply	A. H. Waynick
Texas Instrument Foundation	2,275	Transistors	A. H. Waynick
Pittsburgh Plate Glass Co.	4,275	Fellowship in ceramic echnology	Guy Rindone
Pan American Petroleum	2,275	Portable seismograph	B. F. Howell
American Peroleum Institute	20,000	Hydrothermae and structural studies of minerals	Rustum Roy
Mass. Institute of Technology	\$4,000	Praseodymium compounds	G. W. Brindley
Penna. State Library	12,090	Character and motivation of Library's public	Karl Gingrich
National Science Foundation	30,000	Trace elements in sulfide minerals	K. E. Beasley
Glen Alden Foundation, Inc.	9,000	Low-ash anthracite	H. D. Wright
U. S. Dept. of Agriculture	4,600	Motion picture on hog cholera	H. B. Charnbury
Pittsburgh Plate Glass Foundation	1,000	Summer Science Institute	H. W. Dunne
National Mineral Wool Insulation Assn.	13,200	Mineral wool-macerated paper	W. H. Powers
Monsanto Chemical Co.	1,000	Fruit insect pests	F. A. Joy
U. S. Army Research Office	15,327	Mechanics of creep and impact for plastics	Dean Asquith
U. S. Dept. of Health, Education and Welfare	27,071	Documentary sound film evaluation	Joseph Marin
Dept. of Commerce	2,500	Technical inquiries in industrial problems	R. B. Patrick
Koppers Co., Inc.	\$19,412	Boron chemistry studies	R. H. Ramsey
Dow Corning Corp.	29,000	Organosilicon chemistry	Thomas Wartik
International Nickel Co., Inc.	800	Cooperative program in metallurgy	L. H. Sommer
AZI-LIA Expanded Research Program	3,930	Lead oxide systems	R. D. Lindsay
ibid.	3,930	Zinc oxide systems	F. A. Hummel
Penna. Power and Light Co.	1,500	Motor generator set and accessories for Scranton Center	F. A. Hummel
The Carlin Co.	135	Pressure-jet oil burner gift	R. E. Dawson
Penna. Farm Bureau Federation	1,000	Studies of competitive position of Penna. agriculture	R. H. Essenhigh
Cooperative GLF Exchange	400	Buckwheat research	R. H. McAlexander
Pittsburgh Plate Glass Co.	11,250	Air wall research	H. B. Sprague
Allied Chemical Corp.	900	Foamed plastic, heat transfer	E. R. McLaughlin
Ford Motor Co.	3,000	Ceramic and other cutting tool materials	G. L. Thuring
The Aluminum Association	5,600	Electrical conductance of aluminum siding	E. C. Shuman
Speer Carbon Co.	3,700	Fellowship	P. L. Walker, Jr.
Sport Fishing Institute	500	For research under Rockwell Foundation Grant	E. L. Cooper
Chemagro Corp.	800	Fruit insect studies at Arendtsville	Dean Asquith
Thomas Butterworth, M.D.	500	Cytological investigations on tuberous sclerosis	J. E. Wright, Jr.
United Church Board for Homeland Ministries	1,500	Aid support of research associate in religion	L. H. Harshbarger
Dept. of Commerce	14,944	Terminal forecasting from a small-scale network	Hans Neuberger
National Science Foundation	25,200	Properties of simple fluids in external potential fields	William Steele

faculty BULLETIN

Vol. 50, No. 4 July 27, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

FRIDAY, AUG. 3

NDEA Summer Language Institute lecture by Dr. Pablo Roca, Pan American Union, on "La enseñanza en las escuelas primarias de la America Latina," 8 p.m., Chapel Lounge, public invited.

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

SUNDAY, AUG. 5

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Thomas Iwand, assistant professor of economics, on "Let God Be God."

TUESDAY, AUG. 7

Opening night of Mateer Playhouse production of "Send Me No Flowers," 8:30 p.m., Standing Stone. Two-week run.

WEDNESDAY, AUG. 8

International Film Committee showing of "Dreams That Money Can Buy," 7 and 9 p.m., HUB assembly room.

Speech by Sen. Joseph S. Clark, 8:30 p.m., HUB ball room.

FRIDAY, AUG. 10

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Isadore Adler, U. S. Geologic Survey, on "Application of the X-Ray and Electron Microprobe Analyzers to Mineral Analysis."

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Language Lecture

Dr. Pablo Roca, assistant chief in the Division of Education of the Pan American Union, will lecture before the NDEA Summer Language Institute tonight (Friday) at 8 p.m. in the Chapel lounge.

He will speak on "Enseñanza en las Escuelas Primarias de la America Latina."

Mateer production

The Norman Barasch-Carroll Moore comedy, "Send Me No Flowers," will open at Mateer Playhouse Tuesday, August 7, with Leon B. Stevens, as George Kimball, in the starring role. The play will continue until Aug. 18.

Kimball is a typical suburbanite but he is a hypochondriac of the first order. Through misinterpretation of a doctor's phone call, he prepares himself for an early demise.

Lydia Bruce is co-starred as Kimball's wife Judy, and Max Gulack plays the sympathetic next door neighbor, David Frank is Judy's college-days boy friend, and Ed Anderson the salesman of cemetery plots.

Tickets may be reserved by calling the box office at UN 5-7586 from 10 a.m. to 6 p.m. and Standing Stone North 7-4211 after 6 p.m.

Art Purchases

Six paintings executed by students of Hobson Pittman this summer have been purchased by Mrs. Donald Alexander, of San Antonio, Texas, who is said to have one of the outstanding collections of French and American paintings in the southwest. In San Antonio they will be shown in a gallery Mrs. Alexander has completed recently and eventually they will be given to the McNay Museum of Art.

Among those purchased is "Landscape," by George S. Zoretich, professor of art. It is a watercolor.

News in Brief

→**INSTRUMENT:** The department of technical services of the College of Engineering is constructing a goniometer, light measuring device, for the Pennsylvania Department of Highways. William Glass, director of technical services, is in charge of the project. The goniometer measures angles between light reflecting surfaces and will be used to test highway flashers and safety lights by the Highway Department.

→**ENGLISH:** Forty-four teachers are taking part in the six-week program conducted by the Department of English and sponsored by the Commission on English for the College Entrance Examination Board. The program is intended to study methods to improve the teaching of English and is one of 24 such programs at universities throughout the country for which 900 fellowships have been provided to high school English teachers.



FRANCIS AND LOIS HYSLOP

Research Scholars

Lois Noe Hyslop, professor of Romance languages, and Francis Hyslop, professor of art and architectural history, have been named Liberal Arts Research Scholars for the Summer Term.

Members of the College of the Liberal Arts faculty who receive the honor are relieved of some of their teaching duties to enable them to devote more time to research.

The Hyslops are completing a manuscript on Baudelaire as a critic, and it will be their third book concerning the 19th century poet. "Baudelaire on Poe" was published by Bald Eagle Press in 1952 and "Baudelaire: A Self-Portrait" by Oxford University Press in 1957.

Baudelaire's work as analyst of art and literature will be presented in the new volume.

Senator Clark

Senator Joseph S. Clark and other candidates for major office in the State have been invited by the University to speak on campus and Sen. Clark's visit has been scheduled for Wednesday, Aug. 8, at 8:30 p.m. in the Hetzel Union Building Ballroom.

Students, faculty, and area residents are invited to hear Sen. Clark, whose topic has not been announced as yet, nor have dates for other candidates, who are selecting them to fit their crowded schedules.

SENATE

The regular meeting of the University Senate scheduled for Tuesday, August 7, has been cancelled. Since there is no regular meeting in September, the next meeting will take place Tuesday, Oct. 2. The agenda will be distributed Sept. 18.

Accreditation

Accreditation of the curriculum in landscape architecture has been extended another five years by the American Society of Landscape Architects.

Walter L. Chambers, University of Michigan, was a member of the five-man evaluation team which earlier this year looked into the landscape architecture program on campus and is also a member of the education committee of the Society. The committee accredits curricula for the Society.

In a letter to President Walker, Dr. Chambers pointed out that the visit already made served as an official re-evaluation of the University's program in landscape architecture.

Wayne H. Wilson is director of the landscape architecture program in the department of horticulture. Other members of the staff are Kenneth J. Polakowski and E. Lynn Miller.

Costume Collection

The department of clothing and textiles in the College of Home Economics has developed an Historic Costume Collection, exhibits from which are on display from time to time in cases near Room 120 Home Economics South.

Among the items in the collection are dresses, evening coats, hats, undergarments, and infant clothing dating from 1840 to 1957, donated by friends. Costumes from some foreign countries have also been donated. Further contributions are welcomed.

The collection serves students in costume design classes and those in courses on the socioeconomic and psychological factors underlying fashion.

Art Exhibition

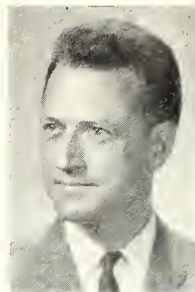
An exhibition of paintings by 28 students, members of the introductory course taught this summer by Dr. George Pappas, associate professor of art and art education, went on display this week in the Room 105 Temporary Building gallery.

Although most of the students are taking the painting course for the first time, several advanced students with prior exhibition credit, are working with Dr. Pappas and are included in the show. They include William Farrell, instructor in Art at Purdue University, and George Ferguson, assistant professor of art at Edinboro State College.

The exhibition will be open Monday through Friday until August 17.

PERSONNEL MATTERS

Philip F. Hallock has been named acting head of the department of architecture, succeeding Dr. Milton S. Osborne who retired June 30. In addition to his administrative duties, Hallock will continue teaching architectural design and the professional practice of architecture.



P. F. HALLOCK

A 1935 graduate of Penn State Hallock was granted the master of science degree in 1937. He had professional experience in Lancaster and Chicago before World War II service. In 1946 he opened a private office for the practice of architecture in State College and was appointed part-time instructor in architecture a year later. He was named assistant professor in 1947, associate professor in 1949, and professor in 1953.

Recent appointments to the faculty include the following:

Dr. Harold E. Mitzel, as professor of psychology and assistant dean for research in the College of Education, effective Sept. 1. He has been professor and director of research in the Division of Teacher Education, City University of New York for the past ten years. He is a University of Wichita graduate and was conferred advanced degrees by the University of Minnesota in educational psychology.

Dr. Herbert A. Smith, as professor of secondary education and head of the department, effective August 1. He was professor of education and director of the Bureau of Educational Research and Service at the University of Kansas and served on the University of Nebraska faculty prior to accepting his present position. He was granted all three degrees by the University of Nebraska.

Dr. Richard M. Lundy, as professor of psychology and director of the Clinical Training Program in psychology beginning with the Fall Term. He comes from the University of Wisconsin where he was associate professor of psychology. An Antioch College graduate he was granted master of science and doctor of philosophy degrees by Ohio State University.

(Continued on page four)



J. H. MOYER

Dr. James H. Moyer, professor and head of the department of secondary education, will retire with emeritus rank Oct. 1 after serving on the faculty for 25 years. A graduate of Kansas State College, he received master of

arts and doctor of education degrees from Columbia University Teachers College. Before joining the faculty he had been a member of the Columbia University faculty for three years, was principal of the Manhattan, Kan., senior high school for one year, was a science teacher for seven years in Kansas high schools, and was farm cost accountant for the U.S.D.A. for four years.

Two other members of the faculty who retired July 1 have also been named emeritus professors by the Board of Trustees. They are **Francis J. Doan**, 37 years on the faculty in dairy manufacturing, and **Dr. Arthur F. Davis**, 28 years on the physical education faculty.

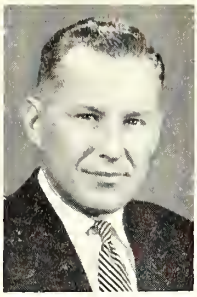
Dr. Arnulf Muan, professor of metallurgy, will be on leave until Dec. 31 to conduct research in high temperature solution chemistry at the Technical University of Norway under a special grant from the National Science Foundation. He also plans to study at the Max Planck Institute for Physical Chemistry at Goettingen, Germany.

Charles E. Govier, professor emeritus of telephone engineering, died July 19. A member of the faculty for 37 years, he retired in 1944. He received bachelor of science and electrical engineering degrees from Penn State and joined the faculty after serving as telephone engineer and detail design engineer for Western Electric Co.

Stanley G. Gesell, professor of entomology extension, has been granted a leave for the Spring and Fall terms of 1963 to do graduate work at Purdue University.

Office Services

D. Lewis Mothersbaugh has been appointed supervisor of Office Services Division and questions regarding printing, multilithing, mimeographing, and other services performed by the Division should be directed to him, at UN 5-7544.



R. H. RAMSEY

To Meet 1970 Needs

44 Per Cent More Engineers

PENNSYLVANIA will require an estimated 44 per cent more engineers and 40 per cent more scientists by 1970 to meet the needs of a population expected to increase by 9 per cent and by industrial and other growth, according to a study made by Robert H. Ramsey, head of the Industrial Reference Division, College of Engineering and Architecture.

The study was made for the Department of Public Instruction of Pennsylvania, as part of an overall project to evaluate the future requirements of doctors, veterinarians, nurses, and other professions, in the Commonwealth.

Among the other results of the study were the following:

1. Education will employ 5 per cent of the engineers (compared to the 1960 figures of 4 per cent); industry 91 per cent, and government 4 per cent.

2. Education will employ 44 per cent of the scientists; industry 49 per cent; and government 7 per cent.

3. Technician employment will increase by 38 per cent.

4. In individual industries the proportions of engineers and scientists employed to total employment in the industry will vary widely. In the paper industry, an increase of engineer-scientist employment of 100 per cent is anticipated; the textile industry will show little relative change.

Ramsey's studies, making use of census data, National Science Foundation studies, Department of Public Instruction information, and opinions of leading industrial officers, pointed up the fact that in the decade from 1960 to 1970, the total population is expected to increase from 11,320,000 to 12,300,000, the total civilian labor force from 4,420,000 to 4,820,000, and the total employed civilian labor force from 4,127,000 to 4,500,000.

The data available suggests that certain industries are expected to undergo further technical changes beyond those which have already taken place, calling for a step up in the proportion of engineers and scientists to the total number employed in the industry. NSF studies indicate, for example, that the mining industry now employing 4.6 per cent engineers and scientists (of the

total employed in mining) will increase to 8.6 per cent. The food industry would, if it followed the expected trend, increase from 0.7 per cent to 0.9 per cent, textiles remain virtually constant at 0.3 per cent, and the chemical industry increase from its present 9.6 per cent to 12.4 per cent.

Similarly data regarding the proportions of engineers to scientists in the total picture were obtained. For most industries the ratio is expected to remain constant, but in the mining industry, engineers, now 59 per cent of the total of engineers and scientists, are expected to climb to 70 per cent, and scientists drop from 41 to 30 per cent. Current ratios vary from 98-2 in the construction industry to 40-60 in the food industry.

Based on the study, employment of engineers in the Commonwealth will increase by 26,900 (from 1960 to 1970) and 24,150 of these will be absorbed in industry, 1,550 in education, and 1,200 in government.

Of the expected 10,500 increase in scientists in the same period, industry will take 3,650; education 5,800; and government 1,050.

Comments of industrialists regarding the employment of engineers and scientists in their industries lent support to the data accumulated by Ramsey, although most were somewhat more conservative in their estimates. The president of a chemical company, while optimistic about the future, foresaw about the same employment as in the past, but a vice president in the same company estimated an 80 per cent increase in the engineer requirement and a vice president for research estimated an increase of 15-25 per cent.

A vice president and general manager of research and development in

(Continued on page four)

Senate Minutes

ANNUAL REPORT

Scholarships and Awards Committee

I. Calendar Outline:

A general outline of the work of the Senate Scholarships and Awards Committee for the year 1961-1962 is as follows:

August 1961: Approval of Athletic Grants-in-Aid for the Fall Term 1961. (approximately one hundred eighty-three counting in-coming freshmen)

October 1961: Initial committee meeting to outline work for the year 1961-1962.

November 1961: Selection of three Fulbright nominees by interviews with ten applicants. This was done under the guidance of Professor Galbraith.

December 1961: Approval of athletic Grants-in-Aid for the Winter Term 1962. (approximately nine)

February 1962: Selection of one hundred thirty-one scholarship recipients for the year 1961-1962.

March 1962: Approval of athletic Grants-in-Aid for the Spring Term 1962. (approximately ten)

April 1962: Selection of three John W. White Fellowship recipients and one John W. White Medalist for the year 1961-1962.

May 1962: Selection of one hundred fifty-four scholarship recipients for the year 1962-1963.

II. Criteria used by the Senate Committee in awarding scholarships for the years 1961-1962 and 1962-1963.

A. Specific criteria:

1. These were stipulated for each specific scholarship in the original provisions of the scholarships.

B. General Criteria:

1. All applicants must have completed two terms at The Pennsylvania State University main campus and/or centers to be eligible for consideration.

2. The only exceptions to this were: (1) The Phi Kappa Phi Scholarships awarded to first or second term freshmen as stipulated. (2) Two cases of freshmen with second term standing with straight 4.0 averages and presenting cases of extreme need.

3. Scholarships were awarded to students with averages from 4.0 to 3.4, with an occasional exception due to the specific criteria established in a given scholarship.

4. Scholarship was the primary criterion and need the secondary criterion.

III. Summary of Scholarships granted in the last three years:

Year	No. Applicants	No. Awarded	Financial Appropriation
1960-1961	321	110	\$13,175
1961-1962	622	131	18,700
1962-1963	557	154	23,825

IV. Additional Scholarships

The Chairman served on various committees in awarding the following schol-

(Continued on page four)

PERSONNEL —

(Continued from page two)

Dr. Herschel W. Leibowitz, as professor of psychology, effective Sept. 1. For the past two years he has been manager of behavioral sciences for International Business Machines in Bethesda, Md., and Yorktown Heights, N. Y.; also lecturer in human engineering and general psychology at the University of Maryland; and visiting professor at the University of Michigan. He received bachelor of arts in psychology and mathematics from the University of Pennsylvania and master of arts and doctor of philosophy degrees from Columbia University. He also received a certificate in French from the University of Paris.

Richard R. Klimpel, as research assistant in the department of fuel technology. He was granted bachelor of science and master of science degrees by North Dakota State College.

Dr. Aaron Montgomery Johnston, as visiting lecturer in education for the Summer Term. He is professor of elementary education at the University of Tennessee.

Ruth Ebken, as visiting lecturer for the Summer Term in the College of Education. She is supervisor of art for the Pittsburgh public schools.

Dr. Ernest Ziegfield, as visiting professor of art education during the Summer Term. He is professor of art education at Jersey City State College.

Dr. Harold F. Goldsmith, formerly assistant professor and sociologist at Michigan State University, has been appointed assistant professor of rural

sociology. He is a graduate of the University of Chicago and received his Ph.D. degree in sociology from Michigan State.

Dr. Allan M. Taylor, who received his Ph.D. in geochemistry here last month, has been appointed research associate in geochemistry. He was granted both bachelor's and master's degrees by the Otago University in New Zealand.

Gerald F. Hall, 1960 graduate in aeronautical engineering and graduate assistant for the past two years, has been appointed instructor in aeronautical engineering.

Carl W. Farley, who has received both bachelor's and master's degrees in chemical engineering from Penn State, has been named research assistant in the department. He has also served as a project engineer with Union Carbide Chemical Co. of Charleston, W. Va.

Howard Luck Gossage, president of an advertising agency in San Francisco, will serve during the Fall Term as distinguished visiting professor of journalism. He is a graduate of the University of Kansas City and has studied anthropology at the University of Paris and University of Geneva. He has been in the advertising business for the past 14 years.

Walter H. Musser, a 1959 graduate in electrical engineering, has been named research assistant in the Ordnance Research Laboratories. He was granted the master of science degree in engineering by the University of California at Los Angeles this year and from 1959 to 1962 was a member of the RCA Engineering staff at Van Nuys, Calif.

ENGINEERS —

(Continued from page three)

the petroleum industry said, "The manpower requirements of course are consistent with the anticipated growth in R & D expenditures. For estimating purposes, we would expect the division of manpower requirements would be approximately 50 per cent from engineering disciplines and 50 per cent from scientific disciplines."

Generally, the industrialists gave as their opinion a belief that Pennsylvania's improvement will be less than that of the country as a whole, primarily because increased employment of engineers and scientists depends on new ventures, and Pennsylvania will not experience new ventures in the same proportion as the rest of the country.

SENATE —

(Continued from page three)

ships and awards: U.S. Rubber, Union Carbide, Alcoa, Texaco, Freshmen, Alumni Memorial, Penn State Students, Hetzel, Class of 1942, Evan Pugh, John W. White Fellowships and Medalist, Geist Memorial and Louis Bell.

V. Comments

Previously the Senate Committee has announced scholarship recipients in January or February and financial assistance was granted at the time of the announcement. Because of this fact, and so that we will be more in keeping with other existing policies for awarding scholarships at the University, it was necessary for us to grant both the 1961-1962 and the 1962-1963 scholarships this year.

This committee will, hereafter, make their annual awards in May or June of each year with appropriations made available at the beginning of the Fall Term.

Respectfully Submitted
Della Durant

faculty BULLETIN

Vol. 50, No. 5 Aug. 3, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

Faculty BULLETIN

Weekly Publication
of Pennsylvania
State University

Construction

Preliminary plans for the first unit of the Computer Facilities Center and of the Service and General Stores Building as well as final plans of Unit 2 of the Education and Psychology Building were approved recently by the Board of Trustees.

The Computer Building, to cost an estimated \$575,000 will be located east of the Pasture Research laboratory on Curtin Rd. It will provide added floor space for the Center which is now situated in Boucke Building. Construction will start early next year.

The Service and General Stores Building, which will replace facilities on West Campus along N Atherton St., will be constructed northwest of Beaver Stadium, near the Farm Service Center. The General State Authority has allocated \$1,660,000 for the building.

A five-story structure for which G.S.A. has allocated \$900,000 will constitute the second unit of the Education and Psychology Center. It will be built west of the administrative unit of the center which is now nearing completion on Beaver Field, north of Curtin Rd. Contracts are expected to be let before the end of the year.

Construction of a pole barn on the Agronomy Research Farm at Centre Hall has been authorized. It will be 10 by 20 feet and will be used for hay storage.

Retirement statistics given

A study of the 158 University retired faculty and staff members who died within the past ten years suggests that a man or woman can look forward to about seven and a half years of retirement.

An odd feature of the data, which was compiled by John V. Pezzoni, supervisor of employee benefits in the Personnel Services Division, is the indication that those who waited longest to retire not only lived longer but also enjoyed more years of retirement. Many reasons might be attached to these results, Pezzoni points out, including the relatively small sampling.

Included in the study were 128 men and 30 women; the male employees were equally divided between academic and non-academic.

The person who enjoyed the longest period of retirement lived 23 years, 6 months after retirement, to the age of 88; another person, however, who retired later in life, lived to the age of 92 years, 7 months, and was the oldest of the group at death.

(Note: the data applies only to those staff members who retired at age 60 or later under the University's retirement system; it does not include those who were not covered under the plan.)

The average (mean) age at time of death of the entire group was 72.6 and the median 71.3. The mean age at time of retirement was 65.0, 51 persons retiring before 65, 58 at 65 years, and 49 after 65 years.

The group which retired before 65 lived an average of 5.93 years after retirement; the 65 group lived 6.47 years; and the after-65 group lived 10.96 years in retirement.

The table below shows the Mean and Median Age of Death at the designated age of retirement and the Years of Retirement at each age:

MEAN AND MEDIAN AGE OF DEATH AT VARIOUS RETIREMENT AGES

(All Employees)					
Ret. Age	No.	Death		Retirement	
		Mean Age	Med. Age	Mean Yrs.	Med. Yrs.
60	15	66.5	63.8	6.5	3.8
61	2	62.0	62.0	1.0	1.0
62	11	66.6	65.5	4.6	3.5
63	12	70.1	67.5	7.1	4.5
64	11	70.4	70.0	6.4	6.0
65	58	71.5	69.3	6.5	4.3
66	12	74.3	72.5	8.3	6.5
67	9	78.6	78.5	11.6	11.5
68	6	80.2	80.5	12.2	12.5
69	7	82.6	82.0	13.6	13.0
70	15	80.2	79.6	10.2	9.6
	158	72.6	71.3	7.6	6.3

The statistics for the 128 male employees of the group are virtually the same as those of the entire group. Mean age of death was 72.5 and median 71.6; mean years of retirement 7.4, and median 6.6.

(Male employees only)

Ret. Age	No.	Death		Retirement	
		Mean Age	Med. Age	Mean Yrs.	Med. Yrs.
60	12	65.8	63.8	5.83	3.80
61	2	62.0	62.0	1.00	1.00
62	5	67.6	67.3	5.60	5.25
63	11	70.5	69.5	7.45	6.50
64	8	71.6	71.8	7.62	7.75
65	48	71.3	69.0	6.25	4.00
66	10	73.6	72.5	7.60	6.50
66	7	80.4	80.8	13.43	13.75
68	5	78.4	79.5	10.40	11.50
69	7	82.6	81.5	13.57	12.50
70	13	79.5	79.4	9.46	9.40
	128	72.5	71.6	7.4	6.64

Further study of the data discloses that 25 per cent of the entire group died within 3.4 years after retiring, 50 per cent within 7.6 years, and 75 per cent within 11.8 years.

No. Deceased Within Indicated Years of Retirement

Yrs.	No.	%
2	20	12.7
4	46	29.2
6	67	42.5
8	87	55.0
10	103	65.1
12	120	76.0
14	129	81.7
16	141	89.2
18	153	95.9
20	154	97.5
22	155	98.1
24	157	99.3
26	158	100.0

Of the entire group, 36 lived to the age of 80, 31 of them men; 9 lived to the age of 85 or beyond.

No. Employees Living To Indicated Age

Age	No.	%
62	156	99
61	149	94.3
66	132	83.5
68	109	69.0
70	95	60.0
72	82	51.9
74	62	39.2
76	54	34.2
78	44	27.8
80	36	22.8
82	17	10.8
84	11	6.9
86	7	4.4
88	4	2.5
89	3	1.9
92	1	0.7

CALENDAR

FRIDAY, AUGUST 10

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Isadore Adler, U. S. Geologic Survey, on "Application of the X-Ray and Electron Microprobe Analyzers to Mineral Analysis."

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Mateer Playhouse production of "Send Me No Flowers," 8:40 p.m., Standing Stone. Continues until Aug. 18.

SUNDAY, AUGUST 12

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Hon. R. Paul Campbell, Judge of Centre County Court, on "The Unreasonable Man."

TUESDAY, AUGUST 14

Phi Delta Kappa Alpha Tau Chapter initiation, 5 p.m., Room 209 Home Economics South. Banquet and special program, 6:15 p.m., HUB dining room "A."

WEDNESDAY, AUGUST 15

International Film Committee showing of "On the Bowery" and "The Song of Ceylon," 7 and 9 p.m., HUB assembly room.

FRIDAY, AUGUST 17

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

Artists Series



Betty Allen

Betty Allen, mezzo-soprano who has been acclaimed internationally, will present a program in the Artists Series Thursday, Aug. 16, at 8:30 p.m. in Schwab Auditorium.

Tickets will be available at the HUB desk to the public Tuesday and Wednesday, Aug. 14-15, from 9 a.m. to 5 p.m. They are priced at \$1.25.

Miss Allen's program will include the following:

Three Arias by Henry Purcell

Eight Zigeunerlieder by Johannes Brahms

Five songs by Richard Strauss

Four songs on poems by Thomas Campion, by Virgil Thomson

Three Spirituals: Let Us Break Bread Together; Ezek'el Saw De Wheel; and My God Is So High.

Among Miss Allen's experiences are appearances with Joan Sutherland in Bellini's *La Sonnambula* and with Leonard Bernstein and the New York Philharmonic in Bach's *B Minor Mass*; outstanding concert work in Germany, Scandinavian countries, and South America; and continued successful solo performances in the United States.

PERSONNEL MATTERS

Dr. M. E. Johns has been named head of the department of sociology and anthropology and will continue to serve as head of the department of agricultural economics and rural sociology. In the new post he succeeds Dr. William G. Mather, who has served since 1955 as head of the sociology department and who has been named research professor of sociology.

Dr. Daniel Marder, who has been assistant professor of English at Pitt and public relations assistant to the vice president and general manager of the Bell Telephone Co.'s Pittsburgh branch, has been appointed associate professor of English. He is a graduate of Roosevelt University, was granted master of arts degree in English from the State University of Iowa, and received the doctor of philosophy degree from the University of Pittsburgh.

Dr. Louis A. Ploch, associate professor of rural sociology at the University of Maine, has been appointed visiting professor of rural sociology at Penn State. He is a 1950 graduate of the University and received the master of science degree in 1951. Cornell University conferred the doctor of philosophy degree.

Dr. Luella N. Dambaugh is serving as visiting professor of geography during the Summer Term. She is professor of geography at the University of Miami (Florida) and prior to her appointment there in 1947, she was research assistant with the American Geographical Society and taught in Pennsylvania high schools and at the University of Pittsburgh.

Elwood Mintz, member of the communications staff at Virginia Polytechnic Institute since 1960, has been appointed assistant professor of agricultural extension in communications.

Richard E. Coole has been named assistant county agent for Clinton Co. He is a 1961 graduate.

Frederick G. Foreman, 1962 graduate in dairy science, has been named assistant county agent in Blair County.

Dr. Richard L. Beaudoin has taken up a position as assistant professor of zoology. He came from the University of North Carolina, where he was doing postdoctoral work in animal parasitology at the School of Public Health. He was graduated by St. Anselm's College and was granted the master of science degree from Notre Dame and doctor of philosophy by the State University of Iowa.

Kenneth H. Heidrich, member of the faculty from 1937 to 1950 and more recently in private practice of architecture in State College, will be visiting professor of architecture for the Fall, Winter, and Spring Terms. He is a Carnegie Tech graduate and received the master of fine arts degree at Princeton. He holds a diploma from Fontainebleau School of Fine Arts and also studied at Chouinard School of Art in Los Angeles and the Cleveland School of Art.

Leaves of absence have been announced for:

Morris E. Schroeder, assistant professor of agricultural engineering, Sept. 16 to June 30, to work on his doctoral degree at Purdue University, under a Science Faculty Grant of the National Science Foundation.

News in Brief

→**WATER:** A special water and sewage treatment series of courses is being offered by Continuing Education in the Southeastern Region for water, sewage, and industrial waste treatment plant operators. Attending are 55 representatives from 21 different municipalities and two commercial organizations.

→**APPRECIATION:** The Boy Scouts of America has presented an embossed certificate to the University in appreciation for the many services rendered by Land-Grant Colleges and Universities to the Scouts.

FELLOWSHIPS

Postdoctoral National Science Foundation Fellowships are available to young scientists, citizens and nationals of the United States, who will have earned the doctorate or have had research training equivalent to it, and who have demonstrated ability and special aptitude for advanced training in the sciences. Approximately 65 of these fellowships will be awarded Oct. 15 for full time scientific study and/or research at the postdoctoral level for tenure periods of from six months to two years, to begin within one year of the announcement of the award.

The annual stipend is \$5,000 plus an allowance of \$500 for each dependent, with a limited cost of travel and research expense allowance.

Application deadline is Sept. 4, and office cards to use in obtaining application materials are available at the Graduate School Office, 101 Willard. These office cards must be filled out and submitted to The Fellowship Office, National Academy of Sciences-National Research Council, Washington 25, D. C., in order to obtain application materials.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
U. S. Steel Corporation	\$250,000	Second hand 3,000 KW motor-generator set for Low Temperature laboratory	J. G. Aston, J. J. Fritz
Pittsburgh Plate Glass	11,250	Air wall research	E. R. McLaughlin, V. L. Pass
Penna. Heart Association	2,200	Adaptive reactions in the cardiovascular system	Adam Anthony
General Electric Co.	6,692	Flourescent material	F. A. Hummel
National Science Foundation	50,000	Research facilities in chemistry	F. W. Lampe
American Petroleum Institute	4,600	Chemical research in air pollution	F. W. Lampe
Gulf Oil Corp. Foundation	1,000	General assistance grant	M. R. Fenske
Leon Falk Family Trust	65,000	92 head of purebred Hereford cows and \$15,000 for progeny testing	R. C. Miller
American Cyanamid Co.	500	Fruit diseases	F. H. Lewis
Dow Chemical Co.	500	Fruit insects	Dean Asquith
American Cyanamid Co.	500	Fruit insects	Dean Asquith
Birkett Mills	700	Buckwheat research	H. G. Marshall
South Penn Oil Co.	15,000	Secondary recovery of oil	C. D. Stahl
Educational Facilities Laboratories, Inc.	850	Printing of "A Faculty Office Study"	C. R. Carpenter
Automation Devices, Inc.	13,500	Equipment for instruction in automation lab	J. D. Bowman
National Science Foundation	15,900	Magnetohydrodynamics	R. P. Kanwal
ibid.	18,500	White pine hybridization and weevils	H. D. Gerhold
ibid.	39,400	Radiation effects on polymers	D. E. Kline
Armstrong Cork Co.	3,200	Summer chemistry fellowships	H. D. Zook
California Chemical Co.	500	Fruit insect studies at Arendtsville	Dean Asquith
U. S. Public Health Service	831,698	Construction of part of Life Science Building	R. W. Stone
Stackpole Carbon Co.	1,840	Fellowship in metallurgy	W. R. Buessens
N.A.S.A.	25,800	Experimental study of a warm plasma	C. R. Burnett

SENATE MINUTES

ANNUAL REPORTS

Committee on Continuing Education Policy

The Committee held ten meetings during the current academic year. Two subcommittees, one studying the effects of the four-term plan on Continuing Education, and the other seeking to formulate a definition of Continuing Education, held additional meetings totaling seven.

College Policies. Policy statements by the several colleges concerning their programs of Continuing Education were transmitted through the Director of Continuing Education to the University Senate. Copies of these policy statements, together with an analysis which he had prepared for the President, were furnished each member of the Committee by the Director. These statements were studied closely and discussed extensively by the Committee. They proved extremely useful in the work of the Subcommittee on Defining Continuing Education.

Evaluating Continuing Education. One indirect consequence of the attention devoted to the college policy statements was a discussion of the problem of evaluating our Continuing Education programs, with special relation to the general evaluation of the academic units of the University currently under way. It was decided to recommend to the President that the several colleges consider persons with a special competence

in this area when constituting the teams charged with evaluating their programs. The Chairman and the Director agreed to transmit this recommendation to the President. The Committee is happy to report that the several colleges are now doing this.

Continuing Education Problems Under the Four-Term Plan. A special subcommittee, constituted during the preceding academic year, continued to study the effects of the four-term plan on Continuing Education operations, under the chairmanship of R. E. McCord. Its attention focused on the "squeeze" as to staff and facilities, temporarily induced by expansion of summer offerings in Resident Education. The staffing problem is expected to become more acute in the near future. Noting the current shortage of larger rooms as especially acute, and likely to continue so for a few years, the Subcommittee prepared a memorandum embodying its findings which, together with a recommendation urging the several faculties to co-operate in minimizing adverse effects of the temporary "squeeze" on either Resident or Continuing Education, was transmitted to the Director of Continuing Education. He reported that this memorandum and recommendation had been passed to the several Deans.

Defining Continuing Education. Instruction in this field is currently defined (Senate Rule B-2) as including "All instruction, including correspondence, given by The Pennsylvania State University which is not specifically designated as resident instruction." Partly as a result of its study of the college policy statements, and partly as a

result of analysis of the rapid growth of Continuing Education programs, the Committee became interested in formulating a more descriptive and prescriptive definition of Continuing Education, including the present activities of the Co-operative Extension Program of the Colleges of Agriculture and Home Economics. A special subcommittee was formed, under the chairmanship of D. C. Jones, to study this problem. This Committee has requested the advice of the Administrative Committee on Continuing Education concerning this problem.

It is recommended that the study of defining Continuing Education continue into the coming academic year. With the concurrence of the President, the Committee would consider the following questions:

- (1) Should we limit Continuing Education activities to "education?"
- (2) Should the lowest level of "education" activities be placed at a "post-secondary school" level?
- (3) Can we justify "education" activities of a lower level by reason of the University having the only competency within the Commonwealth to furnish the given service?
- (4) Should activities that constitute "service" rather than "education" be grouped as "public service" rather than "continuing education" even though some or all of them continue to be administered or controlled by Continuing Education personnel?

A. H. Reece, Chairman



York Campus

YORK, Pa., is an industrial-agricultural community in south-central Pennsylvania in an area figuratively a "hotbed" of higher education.

Within York itself there are only the York Junior College and the Penn State Campus, but within easy commuting distance are Gettysburg College, Franklin and Marshall, Dickinson, Shippensburg and Millersville State Colleges, Hood and Wilson, (women's colleges) and the Harrisburg Area Center for Higher Education.

Penn State, through the York Campus, provides the area's only full-time technical program and it is in this role that the University has been serving the community since the 'twenties. Three decades and more ago, YMCAs throughout the State offered educational programs of various types, many of which Penn State cooperated with, one of the strongest being at York. The courses were defined as "related training" and were primarily for vocational development. Also in the late 'thirties, Penn State cooperated with the York Corporation to provide an apprentice-type training. During World War II, war training programs, in cooperation with the YMCA at first and later with what is now York Junior College, were extremely well attended.

Following the war training programs, Penn State re-established the evening school in the high school and added day sessions for veterans in 1949. The popularity of the work made it necessary to move from the high school to the Wilson Elementary School and later a school at Shiloh a few miles out. In 1953 the two-year associate degree program was started. Subsequently the York Advisory Board began negotiations for permanent facilities.

In 1956, the University entered into a lease-purchase agreement with the Advisory Board for nearly 8 acres of land on Edgecomb



E. M. Elias

Avenue and the construction of a two-story 100 ft. by 75 ft. classroom-laboratory-administration building. Subsequently an additional 9 acres adjacent were purchased. The building is at the highest elevation of gently rolling land, overlooking a baseball park and affording a fine view of the countryside.

The 150 York students are largely from the city and from Lancaster and Harrisburg, but nearly a fourth of the student body comes from some distance to rent rooms in York and avoid the commuting problem. Overall, the Campus serves an eight-county area of South Central Pennsylvania.

Electrical and Electronics Technology, Drafting and Design Technology, and Production Technology are the major programs, all of considerable importance to the industrial complex in the York area. Graduates, however, are employed not only in the home area but also throughout the country.

The eight-man full-time and five-man part-time faculty, which includes two retired officers of the military services, is headed by Edward M. Elias, a 1950 graduate in electrical engineering of Lafayette College who became assistant administrative head of the York Center in 1950, administrative head in 1955, and director of the Campus in 1959. He is an assistant professor of general engineering and presently completing a graduate program at the University of Maryland.

Tyree R. Horn, assistant professor of general engineering retired in 1954 as a colonel from the U. S. Army and joined the faculty in 1955. He is a West Point graduate and was granted the master of science degree by Harvard University in 1930.

Ralph M. Humes served 28 years in the U. S. Navy, retiring in 1959 as captain and joining the faculty then. He is a 1932 graduate of the Naval Academy at Annapolis.

Harold I. Knox, assistant professor of general engineering, taught in the evening program from 1941 to 1958 and was director for a number of years. He joined the day faculty in 1958. Frederick A. Snyder is a 1957 mechanical engineering graduate of Drexel and is doing graduate work at the University of Maryland. Mr. Merl F. Miller, electrical instructor, joined the York staff in 1956. English instructor Richard D. McInay is a 1956 graduate of Michigan State with a master's degree from Iowa and presently engaged in graduate work at University Park.

For many years before his death, Chauncey D. Bond, president of Weaver Piano Co., was deeply interested in the welfare of Penn State in York, at one time even teaching a course. He served as president of the Advisory Board and was one of the leaders in planning the existing facility. The local Advisory Board is now headed by Jack R. Grey, Penn State graduate, and president of the Pennsylvania Cannery Association.

By 1970, the York Campus is expected to grow to an enrollment of 400, not large in comparison with other Commonwealth Campuses but serving a specific need not duplicated in its service area. With interest in higher education, however, and continued prosperity generally in the South Central part of the State, the York Campus may well grow beyond the dreams of its ardent backers.

faculty BULLETIN

Vol. 50, No. 6 Aug. 10, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Fellowships

Application deadlines for National Science Foundation Science Faculty Fellowships and Senior Postdoctoral Fellowships which will be awarded Dec. 10 have been announced as **October 8**. In both cases, application materials may be obtained from the Graduate School Office, 101 Willard, or from the Foundation, Washington 25, D. C.

Approximately 400 **Science Faculty Fellowships** will be awarded to individuals to improve their competence as college or university teachers of science, mathematics, and engineering. Awards will be made to (1) those holding a Ph.D. in science or mathematics; and (2) those not holding a Ph.D. Applicants may request tenure of from 3 to 15 months. The award may be requested in units of three successive summers instead of over a continuous period.

Applicants for Science Faculty Fellowships must have a baccalaureate degree and three years of college or university teaching experience on a full-time basis with a rank of instructor or higher, teaching mainly undergraduate students. The fellows will be chosen on their potential and demonstrated ability as teachers of science.

Stipends for these fellows will be adjusted to approximate the same income as that derived from the normal salary of the recipient, reduced by the amount of other fellowship or

(Continued on page two)

U. N. needs financing

ONE of the more pressing and distressing problems facing the United Nations is that of finding additional methods of permanent financing of the organization's broadening activities.



Elton Atwater

"The present financial difficulties of the U.N. are largely the result of Middle East and Congo peace-keeping activities," says Dr. Elton Atwater, head of the department of political science.

"However, even if these two very expensive actions hadn't been taken, there would be compelling reasons to broaden the sources and amounts of income to permit the U.N. to take needed actions without the constant concern about where the money is coming from to pay for them.

"The big question is, however, what are the potential sources of revenue?"

Since its organization, the U.N. has depended for financing its regular budget on assessment of its members according to an "ability to pay" formula worked out over a period of several years. Special programs such as UNICEF and the Expanded Programme of Technical Assistance are financed through voluntary contributions from governments and private citizens' groups.

A total of 32 nations are assessed the minimum amount of 0.04 per cent of the total regular budget and 81 altogether are assessed less than 1 per cent each. The U.S. is assessed 32.13 per cent of the total budget and the Soviet Union 14.97 per cent. The five largest countries in terms of assessment (including China) provide a total of 65.08 per cent of the total regular budget each year.

With relatively few exceptions, the member nations have paid their regular assessments on time and none has ever defaulted and required the General Assembly to apply Article 19, which rescinds voting privileges of a member whose arrearages exceed the amount due for the preceding two years.

In similar manner, the special programs which are financed by voluntary contributions have been well supported. For example, in 1961 the Expanded Programme of Technical

Assistance received aid from 88 different nations (including some which are not U.N. members) and the Children's Fund received contributions from virtually every country.

Both the United Nations Emergency Force (UNEF) and the Congo Force funds are of a different stripe, however.

After bitter wrangling, the U.N. agreed to methods of financing the Middle East and Congo operations outside the regular budget but with an assessment of each member. The present financial difficulties stem from the refusal of some nations to pay their assessments, for a variety of reasons. The Soviet Bloc has consistently maintained that the Assembly does not have the power to impose binding legal obligations on peace and security matters. Latin American countries insist that such costs should be born by the bigger nations of the Security Council. France and South Africa abstained on the vote on the financing of the Congo operation and have refused to contribute. In fact, the majority of member nations are in arrears for Middle East and Congo operation payments.

The Bond Issue

When the U.N. authorized its \$200,000,000 bond issue, it made the first departure from the customary financing methods. Although it is a long-range finance plan, its basic purpose is to provide cash for paying the bills of the Middle East and Congo operations.

"Other financing methods are needed to strengthen the U.N.," says Dr. Atwater, "not only for future peace-keeping operations but for general operations or other special programs.

"Since the U.N. can't compel governments to pay against their wishes, nor does it have taxing power of itself, other methods might more logically go directly to the people to provide a 'bank account' for the future."

Dr. Atwater's proposals, not necessarily of his origination, include the following:

1. That the U.N. be given exclu-
- (Continued on page three)

FELLOWSHIP —

(Continued from page one)

sabbatical leave salary received. Travel allowance and an additional allowance for special needs are also available.

Approximately 100 **Senior Post-doctoral Fellowships** will be awarded to scientists five years or more past the doctoral degree at the time application is made and who, relative to age, experience, and opportunities have received recognized stature in their fields. Applicant must present a plan for study and/or research with a view to increasing his competence in some specialized field of science, or in broadening his competence in related fields of science. The fellowships are not designed to support preparation of materials for publication or the writing of a textbook as a primary objective.

Stipends are computed individually on a salary-matching principle, reduced by the amount of other fellowship or sabbatical leave pay received during the same period. The award will be adjusted so that the combined support from the NSF and other sources will not exceed \$15,000 per year plus special allowances for travel and other needs. Tenure may begin any time within one year after date of award.

Grade reporting

Grades for all students who are to receive degrees at the Summer Commencement Exercises must be reported within 48 hours after the final examination or in the case of research grades not later than 9:55 p.m., Friday, Aug. 31.

Night and after-hours depositories for grade cards are located in the southeast door, ground floor rear, and the northeast door, first floor front, Willard Building. Neither U. S. nor campus mail should be used for distribution of grade cards except in special instances and only when arrangements have been made in advance with the registrar's office.

Directory

On or about Aug. 31, the deans of the several colleges and administrative officers of the University will receive copies of information concerning all employees whose name and other data are to be published in the Faculty-Staff Directory for the 1962-63 year.

Purpose of providing the information is to afford an opportunity to double check the data before the directory is printed.

PERSONNEL MATTERS

Dr. Arthur H. Brayfield, head of the department of psychology, has resigned to become executive officer of the American Psychological Association. He will be the chief administrative officer of APA, beginning his duties Sept. 15. He has been in his present post for the past four years, coming to the University after seven years in the same capacity at Kansas State University.

Dr. John Cataldo, associate professor of art education, will be on leave from Jan. 1 to March 31, 1963, spending part of the time in duties as editor of "School Art" magazine and also continue work on a textbook manuscript.

Dr. Frederick W. Bateson, who served during the 1960 Fall Semester as distinguished visiting professor of English, is serving in the same position for the current Summer Term and will continue for the Fall Term.

Dr. Emory J. Brown, professor of rural sociology and agricultural extension, will engage in research on 4-H programs in urban areas of the U.S. while on leave from Oct. 16 to April 15. The study will be conducted under the auspices of the National 4-H Foundation with financial support of the Ford Foundation.

Frank S. Sechrist, who graduated from Gettysburg College and has been a teaching assistant, has been appointed instructor in meteorology. He was a flight meteorologist with the U. S. Navy from 1956 to 1959.

Dr. J. Herbert Moore, associate professor of civil engineering, has resigned to accept a position as professor and head of the department of civil engineering at Clemson College.

Dr. Charles W. Rutschky, associate professor of entomology, will conduct research at the University of Hawaii Agricultural Experiment Station on insect vectors of virus diseases from Sept. 1 to June 30. He has been granted a leave for the purpose.

Edward D. Glass has been named instructor in dairy science. He is a 1956 graduate, served as lieutenant in the U. S. Navy for two years, and has been engaged in research on the development of a metering system for the pick up of milk from farm tanks.

Robert W. Lange, assistant professor of forestry, has accepted a similar position at Montana State University. He has been resident director of the Mont Alto Branch of the School of Forestry for the past year.

Dr. Edgar H. Knapp has been appointed assistant professor of English. His bachelor of arts degree was conferred by Wesleyan University, master of arts by Boston University, and doctor of education by Columbia University Teachers College. He taught at Groton School and was coordinator of the senior division at West Essex High School in Caldwell, N. J.

M. Geraldine Gage, associate professor of home economics at Arizona State University, has been appointed assistant professor of family economics. A graduate of Drexel, she was granted master's degree in home management at Columbia University Teachers College, and doctor of philosophy by Cornell University. She has taught at Kansas State and Cornell and was research assistant at Cornell also.

Dr. Douglas N. Jackson, Jr., associate professor of psychology, will be on leave until June 30, 1963, on a U. S. Public Health grant to do research, collaborate on a book, and work on a new personality test with Dr. Samuel Messick at Stanford University.

Roy L. Russo, instructor in electrical engineering, will be on leave from Sept. 15 to June 15 to work toward his doctorate at the University.

Dr. Maxwell H. Goldberg, of the University of Massachusetts, has been named associate director for humanities in the Center for Continuing Liberal Education and professor of humanities, effective Sept. 1. In 1960, he was named the first Commonwealth Professor at the University of Massachusetts with the designation, "University Professor." He began his teaching career in the English department in 1928 and was head of the department for five years before his new title was bestowed. He is past executive officer of the College English Association and since 1952 executive director of the Humanities Center for Liberal Education in an Industrial Society.

SAFETY

The increasing problem of traffic safety on the University Park campus brings the suggestion from W. C. Pelton, head of the security division, that automobile drivers be especially cautious about speed, particularly during the normal work hours. All central campus roads are limited to a 15-m.p.h. speed limit.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
U. S. Dept. of Commerce	\$4,650	Clear-Air Turbulence	Hans Panofsky
Penna. Dept. of Highways	47,880	Joint Road Friction Program	W. E. Meyer
Charleoi-Monesson Hospital	300	Institutional Laundry Program	Joseph Krawiec
John J. Kane Hospital	500	same	same
Chestnut Hill Hospital	300	same	same
Aluminum Co. of Canada, Ltd.	500	Minor elements in horticultural crops	E. L. Bergman
Longwood Foundation, Inc.	6,000	Ornamental plant genetics and breeding	D. E. Walker
Penna. Flower Growers	2,250	Floriculture crops research	J. W. Mastalerz
Penna. Retail Florists	100	Floriculture research	P. B. Pfahl
Upjohn Co.	995	Thyroid activity	R. T. Houlihan
Penna. Flower Growers	215	Booklets on programmed disease control	A. R. Grove
Penna. Turfgrass Council	4,800	Bluegrass disease	H. B. Couch
Edward Orton Jr. Ceramic Foundation	2,400	Graduate fellowship in ceramic technology	W. O. Williamson
Molybdenum Corp. of America	18,000	Rare earths	H. B. Charnbury
Reynolds Metals Co.	600	Cooperative program in metallurgy	R. W. Lindsay
Army Medical Research and Development Command	27,972	Maintenance levels of nutrients for microorganisms	M. F. Mallette
National Science Foundation	3,164	Academic Year Institute	Sarah McGrew
Neptune Meter Co.	115	Two cutaway meters	W. H. Powers
Harris Milling Co.	\$700	Buckwheat research	R. G. Cunningham
Glass Container Industry Research Corp.	25,000	Relation between glass and metals	H. G. Marshall
Quaker Oats Co.	700	Buckwheat research	W. A. Weyl
Office of Naval Research	26,436	Equipment	H. G. Marshall
Penna. Dept. of Highways	41,300	Highway improvement impact on communities	Mary Willard
Bausch & Lomb, Inc.	9,750	Preparation and properties of substantially defective structures	John Frey
American Chemical Society	26,000	Clay and shale materials	Rustum Roy
			G. W. Brindley
			P. L. Walker & F. J. Vastola

U. N. —

(Continued from page one)

sive authority to license and regulate the use of outer space and to tax outer space traffic and communications.

2. That the U.N. be given special rights to royalties from the production of raw material resources found in the oceans or under the ocean bottoms beyond the territorial jurisdiction of national governments. The possibility of drilling for oil through the ocean floor on the high seas may not be far off.

3. That the U.N. be authorized to regulate and tax the exploitation of resources or transportation routes in the polar regions.

4. That U.N. members permit the levy of a small non-burdensome tax on each passport or visa which they issue, the proceeds to go to the U.N.

5. In like manner, that a similar small charge be levied in behalf of the U.N. on all international air or sea passenger tickets.

"All of these methods would require cooperation of governments in the manner of collection," Dr. Atwater explains, "but would be neither assessments against the governments nor voluntary contributions, which are sometimes as difficult for

small governments to provide as assessments."

Estimates of the returns from these methods of financing have yet to be made. The United States alone last year issued 850,000 passports and over 1½ million visas. Add to those sources small taxes on all international steamship and air tickets and a quite useful sum could be realized without excessive collection charges.

One of the advantages of the several proposals made is the promotion of the individual's responsibility towards the U.N., as opposed to that of governments. A few Americans, Dr. Atwater points out, have already accepted that responsibility by setting aside a regular part of their income for the U.N. but it is not a common practice and is not yet practiced by nationals of other countries.

No Strings

In Dr. Atwater's view, whatever funds are derived from these sources should be added to the regular budget and no strings attached to their use, except as the General Assembly votes to use them.

"The Assembly is a moderate body," he says, "and not likely to go to extremes in the use of the money."

"In fact, I think that with this

bank account governments might consider new programs more carefully than they have in the past when they voted to carry out operations without always having the means to finance them."

Dr. Atwater testified July 18 before the House Committee on Foreign Affairs in favor of S. 2768 which authorizes the President to purchase up to \$100,000,000 in U.N. bonds. Speaking in behalf of The Friends Committee on National Legislation he pointed out the need for more permanent additional income to forestall the type of dilemma which currently faces the U.N. He suggested that United States interests can be more effectively served by relying on U.N. agencies rather than on direct bilateral aid because the U.N. can, if it has the funds, do a number of things better and less expensively:

1. Economic aid can be more effectively taken out of the context of the cold war.

2. Internal economic and social reforms can be more effectively suggested by an impartial U.N. mission than by a national government mission.

3. U.N. funds can be made to go further than bilateral funds.

CALENDAR

FRIDAY, AUGUST 17

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "D."

SUNDAY, AUGUST 19

Chapel Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. William G. Mather, research professor of sociology, on "The Unholy City."

TUESDAY, AUGUST 21

Opening night of Mateer Playhouse production of "Blood, Sweat, and Stanley Poole," 8:40 p.m., Standing Stone.

THURSDAY, AUGUST 23

International Film Committee, showing of "The Seventh Seal," 7 and 9 p.m., HUB assembly room.

Mateer production

The final Mateer Playhouse production of the season, beginning Tuesday, Aug. 21, will be the James and William Goldman comedy, "Blood, Sweat and Stanley Poole."

David Frank has the lead role of Sergeant Stanley Poole, whose life is the army, with Marvin Green as Oglethorpe, the intellectual private, and Max Gulack as the not-too-bright Pfc. Rooney. The WAC Sergeant Florence Denzil, will be played by Lydia Bruce, and the master sergeant of the M.P. detachment by Leon B. Stevens.

The play involves an army edict that commissioned officers must possess a two-year college education or pass an equivalent examination. Sergeant Poole leads a search for a new solution to the problem since the method used to circumvent the rule is about to be discovered.

Tickets may be obtained by calling UN 5-7586 between 10 a.m. and 6 p.m. and Standing Stone Exchange North 7-4211 after 6 p.m.

ITEMS OF INTEREST

The Arts

DUNLOP, J. W., conducted the Honors Band at the National Music Concert at Interlachen, Mich.

FROST, STUART, art, an oil painting and a watercolor exhibited at the 27th annual mid-year show of painting of the Butler Institute of American Art, Youngstown, Ohio.

Elected and Appointed

FENSKI, M. R., chemical engineering, elected chairman, Chemical Engineering Review Committee, Argonne National Laboratory. KRAUSS, F. B., Romance languages, re-elected a member of the executive council of the American Classical League.

TRIEBOLD, H. O., JR., safety, elected to membership in the International Association of Arson Investigators.

ZEIGLER, M. L., student affairs research, re-appointed to the Subcommittee on Electronic Computers of the American Association of Collegiate Registrars and Admissions Officers.

Lectures and Talks

ALBRIGHT, G. H., architectural engineering, series of lectures at Institute of Protective Construction at the University of Colorado.

— talks on technical details research work in progress here at the Survival Shelter Symposium at the Annual Meeting of the American Society of Heating, Refrigeration, and Air Conditioning Engineers.

HEIDE, EUGENE, New Kensington, "Your Community College," before the Greensburg Rotary Club.

LESAGE, LAURENT, Romance languages, on French and Spanish Naturalism before the NDEA French Institute at Bucknell University.

MAGNER, T. F., Slavic languages, at the NDEA Russian Institute at Franklin and Marshall College, in Russian, "The Slavic Family of Languages," and "A Linguistic Description of Russian."

MARKHAM, J. W., journalism, lectures on the historical evolution of freedom of information and on the flow of information in the Western Hemisphere before the seminar of the Inter-American Federation of Working Newspapermen's Organizations in Panama City.

READ, H. J., physical metallurgy, "The Microtopography and the Mechanical Properties of Electrodeposited Metals."

REMICK, F. J., nuclear reactors, two lectures to nuclear engineering faculty and students at North Carolina State College in Summer Institute on Nuclear Reactor Theory.

SERLING, T. E., President's office, "Proprietary Legal Rights and the University" before the annual meeting of the National Association of College and University Attorneys at Northwestern University.

WILLIAMSON, M. A., Engineering and Architecture, dinner talk at meeting of Society of American Military Engineers at Elmendorf Air Force Base, Alaska.

Articles and Papers

ALMQUIST, J. O., dairy, and AMANN, R. P., "Reproductive Capacity of Bulls. VIII in the Journal of Dairy Science 45 (6).

— and E. W. WICKERSHAM, "Diluents for Bovine Semen. XII. in the Journal of Dairy Science. 45 (6).

BERNARD, JESSIE, sociology, "The Application of Game Theory to Marriage Counseling," at the annual conference of the National Council of Family Relations at the University of Connecticut.

GITHENS, H. W., continuing education, "Philadelphia Builders Take a Hard Look at Their Own Operations," two-part article in "Constructor."

HANSON, BILL, art, "A Word of Wonder," in Vol. 10:1 of Aperture.

KUMMER, H. W., and MEYER, W. E., mechanical engineering, "Skid Resistance: A Problem in Measurements," at the annual meeting of the American Society for Testing Materials.

faculty BULLETIN

Vol. 50, No. 7 Aug. 17, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

DOROTHY L. HARMER
211 PATTEE LIBRARY



faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

CALENDAR

FRIDAY, AUGUST 24

Mateer Playhouse production of "Blood, Sweat and Stanley Poole," concludes Saturday, Aug. 25, Standing Stone, 8:40 p.m.

SUNDAY, AUGUST 26

Chapel Service, 9 a.m. Helen Eakin Eisenhower Chapel. Dr. A. H. Reede, professor of economics, on "The First Word—Was It Actually Spoken?"

WEDNESDAY, AUGUST 29

Summer Term classes end, 9:55 p.m.

SATURDAY, SEPTEMBER 1

Summer Term Commencement, 10:30 a.m., Recreation Building.

Admissions closed

Admission to the Fall Term freshman class at University Park has been closed. There are some openings for both men and women students at the Commonwealth Campuses.

More than 15,275 applications for admission have been processed. Men students admitted as freshmen total 2,663 and women 1,152 (total of 3,815) for the bachelor degree program and 767 men and 9 women for the associate degree program.

The new students at University Park, including freshmen and transfers, total 4,349.

NEXT ISSUE

The next issue of the Faculty Bulletin will appear Friday, September 14. Items for that issue should reach the editor by Monday, September 10.

Experiment station

Penn State people figure prominently in a new book, "State Agricultural Experiment Stations," which is Miscellaneous Publication 904 of the U. S. Department of Agriculture, Cooperative State Experiment Station Service.

Subtitled "A History of Research Policy and Procedure," the book describes the development of the Agricultural Experiment Stations from its origins in European research through the formative years of the Agricultural Colleges in the mid-19th Century and the later growth of agricultural research work.

The volume, which has been published in observance of the U. S. Department of Agriculture-Land Grant College Centennials this year gives considerable space to the parts played by Dr. George W. Atherton, Penn State's seventh president, and Dr. Henry P. Armsby, first director of the Agricultural Experiment Station, in the affairs of the Association of American Agricultural Colleges and Experiment Stations.

Both President Atherton and Dr.

(Continued on page two)

Electronics

Two positions have been created in recognition of the growing importance electronics and electrical equipment play in the academic program of the University.

Francis H. Yonker, formerly senior engineer at HRB-Singer, Inc., has been named electronics planning engineer in the department of physical plant planning and construction. He will be responsible for the planning and design of electronic equipment and systems for all educational purposes, including television equipment, radios, tape recorders, language laboratory and other equipment. He will work closely with the Division of Academic Research and Services and the University campus in the research and development of new equipment and devices.

William H. Pohts, chief television engineer in the Division of Academic Research and Services, has been appointed chief engineer for electronics maintenance in the department of maintenance and utilities. He will continue in his DARS position and will be in charge of the maintenance of all television cameras and systems, radios, public address systems, tape recorders, pagemaster communication systems and similar equipment.

Commencement

Summer Term Commencement Exercises will be held Saturday, Sept. 1, at 10:30 a.m. in Recreation Building.

All members of the faculty are invited to attend and seats will be provided on the main floor for the faculty and wives. Those desiring to take part in the academic procession will meet in robes under the south balcony.

President Walker and Vice President Rackley will preside at the ceremonies. Dr. Richard Wentz, associate director for faculty program of the University Christian Association, will pronounce the invocation and George E. Ceiga, University organist, will play.

Approximately 400 candidates for baccalaureate degrees will be present and 480 candidates for advanced degrees, including 125 doctor of science, 25 doctor of education, 55 doctor of philosophy and 275 master's degrees.

PERSONNEL MATTERS

Dr. Lyman C. Hunt, Jr., member of the faculty for 12 years, has resigned as associate professor of education, effective Aug. 31, to become acting head of the department of elementary education at the University of Akron, in Ohio.

Dr. Thorsten V. Kalijarvi has been appointed professor of international and public affairs in the Center for Continuing Liberal Education. He served as visiting professor of political science during the Winter Term. He is a graduate of Clark University, was a Carnegie Fellow at Harvard, and was granted the doctor of philosophy degree by the University of Berlin. Just prior to his appointment last winter he served four years as U. S. ambassador to El Salvador, and has held other positions in the U. S. State Department.

Appointments to the faculty announced recently include (with effective date indicated):

William M. Adams, Jr., associate professor of agricultural and home economics extension, Aug. 1.

Judd B. Arnold, instructor in engineering, Sept. 1.

Richard C. Bollinger, assistant professor of mathematics, Sept. 1.

Edgar F. Cruft, research associate in geochemistry, Aug. 1.

Eileen P. dePfeiffer, instructor in Romance languages, Sept. 1.

Robert E. Epler, instructor in history and political science at Hazleton, July 1.

(Continued on page two)

EXPERIMENTAL STATION—

(Continued from page one)

Armsby served as presidents of the Association and had much to do with its policies and subsequently the development of agricultural research policies in the country.

President Walker is also mentioned in the book, in a quotation from his speech of Nov. 16, 1960 before the 74th annual meeting of the American Association of Land-Grant Colleges and State Universities, in which he suggested that the program of Federal support for research in agriculture might also be a model for Federal research in all scientific areas.

Also mentioned in the book are Dr. S. W. Fletcher, former dean of the College of Agriculture, and Dr. M. A. Farrell, present director of the Agricultural Experiment Station.

PERSONNEL—

(Continued from page one)

Augusta M. Espantoso, assistant professor of Romance languages, Sept. 1.

Edward Fagan, associate professor of education, Sept. 1.

Anton Glaser, instructor in mathematics, Ogontz, Sept. 1.

Emerson F. Heald, research associate in geochemistry, Aug. 1.

John A. Hostetler, assistant professor of sociology, Ogontz, Sept. 1.

Patricia Klemans, instructor in English, McKeesport, Sept. 1.

Neill R. Joy, instructor in English, Sept. 1.

Robert C. Martig, research associate in dairy science, Aug. 1.

A. Kathryn Pontzer, assistant professor of English, DuBois, Sept. 1.

Gordon M. Shedal, instructor in English, Sept. 1.

George J. S. Stagakis, assistant professor of history, Sept. 1.

ITEMS OF INTEREST

Articles and Papers

LECZNA, F. J., physics, "Severance of Quartz Grains from Reduced Iron Ore by Thermal Shock," in the April issue, Journal of Scientific and Industrial Research."

MATSON, F. R., Liberal Arts, editing the papers and proceedings of a conference on "Ceramics and Man," held last year in Austria.

McHENRY, RUTH, continuing education, "Trends in Curriculum Development," before the faculty of the Altoona Mercy Hospital School of Nursing.

MORSE, J. M., English, "Fiction Chronicle" in the Summer issue of The Hudson Review.

NICHOLAS, FRED, and MUSCHLITZ, W. L., engineering research, "Feasibility of Electric Heating of University Buildings," at the 53rd annual meeting of the National District Heating Association.

READ, H. J., physical metallurgy, on electrodeposition of metals and chemical compounds in "The Encyclopedia of Electronics," published by Reinhold Publishing Co.

REMICK, F. J., KENNEY, E. S., and ROBINSON, G. E., Nuclear Reactor, "Seven Years of Operating a Reactor for Education and Research" and "Promoting the Utilization of a Reactor on a University Campus," at the International Conference on Light-Water-Moderated Reactors" at Gatlinburg, Tenn.

ROBINSON, G. E., Nuclear Reactor, "The Training and Research Reactor Viewpoint" at the annual meeting of the American Nuclear Society, in Boston.

SCHMIDT, F. W., mechanical engineering, "Network Resistance Analyzer," at the summer general meeting of the American Institute of Electrical Engineers.

SCHWEITZER, P. H., engineering research emeritus, "The Present and Future of the Internal Combustion Engine," at the national summer meeting of the Society of Automotive Engineers.

SPICER, T. S., mineral preparation engineering, "Trends of the Application of Coal

and Coke to Industrial Processes," at the A.S.M.E. Fuels Symposium at Rutgers University.

STAHL, C. D., NIELSEN, R. F., and TEMPLETON, E. E., petroleum and natural gas engineering, "A Study of Gravity Counterflow Segregation," in the June issue of the Journal of the Society of Petroleum Engineers.

TUKEY, L. D., pomology, "Factors Affecting the Rhythmic Diurnal Enlargement and Contraction in Fruits of the Apple," at the 16th International Horticultural Congress in Brussels, Belgium.

VION, DOROTHY H., education, "The Office Worker in a Centralized System," in the Spring issue of the "Revue Internationale pour L'Enseignement Commercial."

WEISMAN, W. R., art and architectural history, "The Emergence of the American Mode of Architecture," in The American Review, quarterly of American affairs published by The European Center of American Studies, The Johns Hopkins University Center in Bologna, Italy.

WILLIAMSON, M. A., Engineering and Architecture, "Managing the Laboratory," at the 13th Annual Industrial Research Conference at Columbia University.

Books

Dr. Philip A. Shelley, head of the department of German, and Dr. Arthur O. Lewis, Jr., have collaborated in the editing of Volume II in the University of North Carolina studies in Comparative Literature. The volume is titled "Anglo-German and American-German Crosscurrents." Louis F. Peck, professor of English, and Stanley Weintraub, associate professor of English, were contributors to the book.

GRADE REPORTING

Grades for candidates for degrees Sept. 1 must be reported within 48 hours after the final examination and in the case of research grades not later than 9 o'clock Friday morning, Aug. 31. Deadline for all other grades is 9:55 p.m., Aug. 31.

faculty BULLETIN

Vol. 50, No. 8 Aug. 24, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Parking changes

Start of construction of the addition to Recreation Building has necessitated the realignment of parking assignments to some University faculty and staff members.

The construction requires the elimination of 141 parking spaces in Area 11, south of Recreation Building, points out Stanley H. Campbell, vice president for business.

"As a consequence of losing that many spaces," he adds, "we have had to shift allotments of certain departments and Colleges in that area to Areas 1, 30, 60, 61, and 70, and these shifts in turn have required changes in other areas.

"In all cases, individual parking assignments have been made by the college and department from the new allocations provided. Traffic and parking counts made by the Campus Patrol have been used in determining these new allocations.

"The basic principle followed in the allotment changes was to equalize the walking distance of all faculty and staff members affected as much as possible. Obviously this cannot be done perfectly, but rather than ask some people to walk twice as far as previously, we are asking a greater number to change parking assignments."

Increasing use is being made of Area 50, east of the University Hospital, now that it has been paved and since student parking has been eliminated. Other changes will be required in parking assignments as construction work proceeds on campus.

Enjoy their experience

Distinguished Visiting Professors

DR. FREDERICK W. BATESON is one of 25 outstanding scholars who have held the title of Distinguished Visiting Professor at Penn State.

Speaking only for himself, Dr. Bateson is enthusiastic about the experience, so much so that he is currently in his second "tour of duty," having held the same position in the Fall Semester, 1960-61.

What attractions does Penn State have for scholars like Dr. Bateson, whose customary position is university lecturer in English literature at Corpus Christi College, Oxford University, England?

"I think it is a thoroughly pleasant place to teach and live in," he says. "My wife and I like very much the relative lack of hurry, although, of course, people do get things done. We love to walk over the countryside and it is only a matter of a few minutes to get out of the town into the country.

"The University has a great deal to offer, too, in the way of other pleasures my wife and I like. For example, we were very impressed by Mateer Playhouse productions this summer and are looking forward to dramatic productions during the Fall Term with high expectations."

Professionally, Dr. Bateson has enjoyed teaching the kinds of students he has in his upper class and graduate seminars and courses in literature. Generally speaking they have shown an eagerness to learn and a willingness to work hard.

"I must be honest in pointing out that in the main their backgrounds obviously lacked something in respect to reading and writing. The caliber of students runs the gamut in my classes, some few having an excellent command of English and others still showing the need for more experience in writing themes and essays.

"You know we get a great deal more of that sort of training in our schools, although I must admit that not all our English students have read as much as they should.

"I think there is a great need for more writing experience on the part of American students and I especially notice a need for more experience in reading aloud. There is great value in that, I think."

Both Mr. and Mrs. Bateson are quite accustomed to American ways, for their experiences here date from 1927-9 when he was a Commonwealth Fellow at Harvard University. He has also been at the University of California at Berkeley and Cornell University as visiting professor.

"We have another attachment here, too," says Mrs. Bateson. "Our son is at the University of North Carolina."

Dr. Bateson is in complete sympathy with the distinguished visiting professor program because he feels that both sides have something to contribute to the other.

"Some of our Oxford and Cambridge professors are, I'm afraid, a little stodgy about going someplace else to work," he says. "They don't mind visiting or vacationing, but they feel that other universities can't offer them much intellectually. My own experience has been quite to the contrary; the contact with the other

(Continued on page three)

Dr. F. W. Bateson and his wife talk about their experiences here. He is distinguished visiting professor, for the second time, coming from England.



PERSONNEL MATTERS

APPOINTMENTS

Agriculture

Richard Maginnis, assistant professor of bacteriology.

S. Lauretta Pierce, instructor of anatomy and physiology.

Robert C. Martig, research associate in dairy science.

Mary Powers, instructor of microbiology.

Anthony P. Stenberger, associate professor of agricultural economics and rural sociology.

Nancy Sturgen, research assistant in veterinary science.

Dawn H. Tuttle, assistant professor of rural sociology.

Business Administration

Eugene R. Melander, lecturer in business statistics.

Edward J. Mock, instructor in commerce and finance.

Chemistry and Physics

William Adams, assistant professor of chemistry.

Albert Haim, assistant professor of chemistry.

John C. McDonald, research associate in chemistry.

James A. McKowen, research assistant in chemical engineering.

Russell A. Reed, instructor in chemistry at Wyomissing.

Education

Richard M. Lundy, professor of psychology and director of the Clinical Training Program.

Lowell Schipper, associate professor of psychology.

Herbert Smith, professor and head of the department of secondary education.

George D. Weigle, assistant professor of counseling in education.

Harold D. Willits, instructor in educational services.

Gerald Woolf, assistant professor of educational services.

Engineering and Architecture

Thomas B. Brown, instructor in architecture.

Lester L. Boyer, Jr., instructor in architectural engineering.

Philip C. Cady, research assistant in civil engineering.

Richard A. Keppeler, associate professor of agricultural engineering.

Richard Eugene Kummer, assistant professor of architecture.

Vernon M. Neubert, associate professor of engineering mechanics.

Mortimer A. Schultz, visiting associate professor of nuclear engineering.

Joseph Stach, Jr., instructor in electrical engineering.

Liam F. Stephens, visiting associate professor of civil engineering.

Home Economics

F. Elizabeth Campbell, instructor in family housing and home art.

Margaret M. Jacobson, assistant professor of home-community relations.

Alfred W. Melton, Jr., assistant professor of child development.

A. Frank Tesi, associate professor of clothing and textiles.

Liberal Arts

Lee Anderson, associate professor of mathematics.

Judd Arnold, instructor of English.

Laurence Green, instructor of English, Behrend.

Walter Kuhre, instructor of English.

Eva M. Lucders, associate professor of German.

CALENDAR

SUNDAY, SEPTEMBER 16

Orientation Week activities begin, new students arrive.

MONDAY, SEPTEMBER 17

President's Convocation for new students, 9 a.m., Recreation Building.

WEDNESDAY, SEPTEMBER 19

Fall Term registration begins, continues to Saturday noon.

Offices moved

As a result of the fire of Aug. 20 which damaged most of Graduate Hall, certain offices have been moved to new locations, some of which are considered temporary.

The new locations are the following:

University Placement Service, George N. P. Leetch director, 112 Old Main.

Teacher Placement, R. H. Amal-long head, 105 Burrowes.

International Student Affairs, W. H. Gray director, McAllister.

Division of Academic Research and Services, C. R. Carpenter, director, 403 Old Main.

Management Engineering, G. L. Thuering director, McAllister.

Electronics Planning engineer, F.H. Yonker, McAllister.

Psychology Clinic Annex, Ellen V. Piers, 6 Burrowes.

Telephone numbers are unchanged.

Study abroad

The offices of the Study Abroad Program, which is directed by Dr. Dagobert deLevie, have been moved temporarily to Rooms 211-212, Willard Building. The telephone number remains as previously, 5-5334.

Library talks

A talk on library materials, followed by a tour of Pattee Library, has been arranged by the Reference stall for graduate students, Thursday, Sept. 27, and Monday, Oct. 1, from 7:15 to 9 p.m., and Tuesday, Oct. 2, from 3:50 to 5:30 p.m.

Miss Mildred Ailman, reference librarian, asks that faculty members call these tours to the attention of their graduate classes. Students should sign at either the Reference or Information desk so that enough guides may be provided. Other meetings can be arranged if students are not able to visit at the stated hours.

Attention is directed to the "Library Handbook for Faculty and Graduate Students, 1961," page 22, for information about library instruction offered to classes.

Graduate exams

Graduate students who are planning to take the written foreign language reading examination at the next scheduled time, October 22, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows:

By making an appointment at Room 227 Sparks Building for the German oral tests, which are to be given September 19, 20, 21, and the morning of Sept. 22. Room 300 Sparks Building for the French and Spanish oral tests, also to be given September 19, 20, 21, and the morning of Sept. 22, and at Room 218 Sparks Building for the English oral tests, to be given on September 20, 21, and the morning of Sept. 22. Ph.D. candidates presenting English or Spanish as one of their foreign languages must have written permission from the Dean of the Graduate School.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on October 22 no later than September 24 in Room 218 Sparks for English, Room 227 Sparks for German, and Room 300 Sparks for French and Spanish.

Sunday traffic

The usual organized confusion of Orientation Sunday brings the customary suggestion from University officials to faculty and staff members that, if at all possible, they should keep off the central campus Sunday, Sept. 16.

Some 4,100 new students will arrive that day for the start of orientation activities and registration. Included in the total are 3,000 freshmen, 675 sophomores or juniors transferring from the Commonwealth Campuses to University Park, and more than 430 admitted with advanced standing from other colleges and universities.

Football lunch

The Department of Housing and Food Services has announced that it will once again offer lunch to the public on football Saturdays at East Halls dining rooms.

Cost of the luncheons, which are cafeteria style, will be \$1.25 and they will be served from 11:30 a.m. to 12:45 p.m. The menu will be the same as that being provided to the students and will consist generally of a meat course, salad, bread, dessert, beverages.

The service is being provided to aid those attending the games at Beaver Stadium. East Halls is located very near the Stadium and adjacent parking areas. The first home game is Sept. 22, against Navy.

(Continued from page one)

members of the English department faculty has been very rewarding."

One of Dr. Bateson's continuing interests is the library, with considerable logic since he has been an editor and bibliographer. Evaluating, in general terms, Penn State's library facilities he suggests that the most significant problems for the moment are (1) the need to fill in the gaps in the areas already partly developed, and (2) more reading rooms for students.

"There has obviously been a problem in building up, and especially so when you are compared to the larger libraries, like those at Oxford or Cambridge, or your own Harvard.

"I would suggest that what you need first is someone to keep a constant check on what is available in each field and what is needed. This is a full-time position at the rate books and other materials are being produced."

Mrs. Bateson also has a professional interest in coming to the United States. She is a magistrate in a juvenile court in England and has taken the opportunity afforded by their several visits to observe juvenile workers and facilities in this country.

The Program

The first Distinguished Visiting Professor, who was appointed for the Fall Semester, 1958, was Dr. Herbert Heaton, historian, who was also English-born but who had taught at the University of Minnesota from 1927 and had been chairman of the history department from 1954. He was a recognized authority on economic history and his principal function while here was the teaching of courses in modern economy and Anglo-American economic relations.

During the Spring Semester, 1959, Drs. Edwin G. Nourse (economics), Henry Margenau (physical and engineering sciences), Jeanne Hersch (philosophy) and Thomas D. Clark (history) had the title of Distinguished Visiting Professor, and since then many other distinguished scholars, from this country and abroad, have added to the luster of the University's program.

The University has searched far and wide for the distinguished visitors, in general the search being made by the departments most directly affected. Eleven of the 25 were born in foreign countries and seven came here directly from foreign universities or research laboratories, but

Distinguished Visiting Professors

Dr. Herbert Heaton, historian, University of Minnesota, fall semester, 1958.

Dr. Thomas D. Clark, historian, Kentucky University, spring semester, 1959.

Dr. Jeanne Hersch, philosopher, University of Geneva, spring semester, 1959.

Dr. Henry Margenau, physical and engineering sciences, Yale University, spring semester, 1959.

Dr. Edwin G. Nourse, economics, U. S. Council of Economic advisors, Spring semester, 1959.

Dr. Hugo Weisgall, music, Julliard School of Music, 1959-60.

Dr. Louis M. Hacker, economic history, Columbia University, fall semester, 1959.

Dr. Francis Birch, geologist, Harvard University, December, 1959.

Dr. A. F. Buddington, earth sciences, Princeton University, spring, 1960.

Dr. William Von Arx, earth sciences, Woods Hole Oceanographic Institute, March, 1960.

Dr. R. S. Scorer, earth sciences, Imperial College, England, May, 1960.

Dr. Joseph Chatt, chemistry, Imperial Chemicals, Ltd., England, spring semester, 1960.

Dr. Ernest C. Pollard, biophysics, Yale University, 1960-61.

Dr. Martin Weinberger, art history, New York University emeritus, 1960-61.

Dr. Ervin P. Hexner, economics, International Monetary Fund, 1960-61, 1961-62.

Dr. Frederick W. Bateson, English, Oxford University, fall semester, 1960, and current year.

Dr. Meredith W. Thring, fuel technology, University of Sheffield, England, Nov. 1960.

Dr. George B. Vold, sociology and anthropology, University of Minnesota, fall semester, 1960.

Dr. Laura Thompson, anthropology, University of North Carolina, spring semester, 1961.

Dr. Benlah I. Coon, home economics, U. S. Office of Education, July, 1961.

Dr. Truzilla Kent, home economics, University of Tennessee, Summer, 1961.

Dr. Edward Rosenheim, English, University of Chicago, fall term, 1961.

Dr. Friedrich Kasch, mathematics, University of Heidelberg, 1961-62.

Dr. Arthur J. Eames, botany and plant pathology, Cornell University, fall term, 1961-62.

Alexander Werth, history, writer, 1961-62.

the majority are outstanding scholars in American universities.

Among the American universities represented (in posts held before coming here) were Yale, Columbia, Harvard, Kentucky, Cornell, Minnesota, Princeton, North Carolina, Chicago, Julliard, and M.I.T. Jeanne Hersch came from the University of Geneva, Switzerland; Friedrich Kasch from Heidelberg, in Germany; and M. W. Thring from the University of Sheffield, England.

They have been here for varying lengths of time, from a few days to a full academic year, although basically the program is intended for relatively long periods of time.

Not only have the professors added to the academic program of the several departments but they have stimulated resident faculty and have gen-

erally been extremely unselfish in their help to the entire academic community. Many have given public lectures and have addressed faculty seminars not only in their own fields but in related areas as well.

"The purpose in originating this program," says President Walker, "was to enrich the University by bringing to the campus teachers and scholars of international renown whose presence would serve to inspire and instruct students and faculty alike.

"I feel that the program has done more than we could hope for in the beginning and I feel sure that it will continue to be one of our best means of drawing attention to the University's progress.

"But I am especially pleased that the Distinguished Professors themselves have lauded the program and have taken the trouble to say they like Penn State."

Dr. Irvin P. Hexner, who served as visiting professor of economics from 1958 to 1960 was appointed Distinguished Visiting Professor for 1960-61 and is now assistant dean for research of the College of Business Administration. Also, Dr. Ernest R. Pollard was appointed professor of biophysics July 1, 1961, after serving for a year as Distinguished Visiting Professor.

Both, obviously, enjoyed their Penn State experience as much as Dr. Bateson.

PHONE CHANGES

To make long distance telephone calls from office phones, users should now dial 8-0. Formerly, the practice was to dial 9-0, the changeover being made last Sunday.

A change was also effected in the university information number, which is now 116 instead of 113, when calling from office phones.

Unchanged are the procedures for calling other University Park numbers or for calling phones on other local exchanges — ADams, ELgin, FLanders, and HOMestead.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
National Science Foundation	\$14,000	Elementary solution methods in transport equation	A. M. Jacobs
ibid.	1,150	Conference on dust explosions	R. H. Essenhigh
ibid.	58,900	Optical pumping	R. A. Bernheim
I.B.M. Corp.	165	Equipment for research and instruction	R. G. Cunningham
Office of Naval Research	----	Equipment loan for studies on seismic pulses	B. F. Howell, Jr.
Penna. Dept. of Public Instruction	3,245	Institute for Police Work with Children	W. R. Bechdel
Penna. Dept. of Highways	26,460	Evaluation of paving asphalt properties	W. H. Gotski
Penna. Consumer Finance Association	9,000	Pennsylvania consumer finance industry	R. S. Stout
U.S. Public Health Service	19,490	Endocrine adaptation	R. T. Heulihan
ibid.	4,025	Professional involvement and academic productivity	Jessie Bernard
ibid.	36,493	Ultrastructure of Calcium transporting tissues	Harald Schraer
ibid.	8,533	Amino acids lacking an alpha hydrogen atom	C. I. Noll
ibid.	23,429	Biophysical and endocrine changes in acclimatized rats	Adam Anthony
I.B.M. Research Center	4,069	Fellowship in electrical engineering	A. H. Waynick
U.S. Public Health Service	55,947	Air pollution in mine refuse fires	H. B. Charnbury
U.S. Office of Vocational Rehabilitation	124,071	Teaching grants and traineeships in rehabilitation counseling	K. W. Hylbert
ibid.	39,762	Teaching grants and traineeships in speech pathology and audiology	E. T. McDonald
California Chemical Co.	200	Mushroom research	F. J. McArdle
ibid.	1,000	Control of sciard flies	R. J. Snetzinger
U. of Wisconsin	5,258	Retraining case studies	C. J. Schaefer
U.S. Public Health Service	29,900	Professional Nurse Traineeship Program	-----
All America Rose Selections	424	Work on rose entries	R. P. Meahl
International Minerals and Chemical Corp.	2,000	I.M.C.C. Phosphate	A. S. Hunter
U.S. Golf Association	2,000	Breeding of turf grasses	J. M. Duich
J. M. Huber Corp.	8,480	Hydrocarbon decomposition studies	H. B. Palmer
Owens-Corning Fiberglass Corp.	4,360	Grant for research	G. E. Rindone
Muncy Valley Industries	300	Muncy Valley wood utilization	R. H. Ramsey
National Science Foundation	28,600	Ecology of fungal plant parasitism	R. D. Schein
U.S. Public Health Service	17,135	Behavior, fate deposition and hibernation	D. E. Davis
Army Munitions Command	4,620	Training program in executive development	H. G. Kreim
U.S. Office of Naval Research	27,265	Reaction transition states	R. W. Taft
Republic of Argentina	----	Improvement of deciduous fruit production in upper valley of Rio Negro	C. H. Hitz
National Grape Co-operative Associations, Inc.	3,500	Cultural practices and sprays for Concord grapes	H. K. Fleming
U.S. Public Health Service	10,350	Gas chromatographic analysis of fats	Stuart Patton
Penna. Stone Producers Assn.	1,500	Agronomy research	A. S. Hunter
National Science Foundation	297,600	Cloud and precipitation processes in hilly terrain	C. L. Hosler
Weather Bureau	1,060	Meteorology training for a Weather Bureau employee	C. L. Hosler

faculty BULLETIN

Vol. 50, No. 9 Sept. 14, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Saturday, September 22

Fall Term registration ends at noon.
Football, vs. Navy, 1:30 p.m., Beaver Stadium.

Sunday, September 23

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Charles D. Spotts, professor of religion, Franklin and Marshall College, on "God's Purpose Fulfilled."

Monday, September 24

Classes begin, 8 a.m.
Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Fred Lininger, director emeritus, Agricultural Experiment Station, on "Road to Mandalay."

Thursday, Sept. 27

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.
International Film Series, 3, 7, and 9 p.m., HUB assembly room.

Friday, September 28

Graduate Student Association square dance, Hetzel Union Building.
Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Francis R. Hama, University of Maryland, on "Progressive Deformation of a Curved Vortex Filament."

Television Listings

SECOND CHAIR

WFBG-TV, Altoona, 9-9:15

- Sept. 24 — James I. Tarman, director of sports information, on the meaning of college athletics.
- Sept. 25 — Dr. J. J. Kaufman, professor of economics, on older workers.
- Sept. 26 — Dr. R. B. Saylor, professor of business statistics, on Pennsylvania business.
- Sept. 27 — Dr. John Nisbet, associate professor of electrical engineering, on moon exploration.
- Sept. 28 — Arthur Hungerford, assistant professor of speech, on the F.C.C. and television.

Artists Series Announced

John Browning, pianist, will open the 1962-63 Artists Series Saturday, Oct. 6, at Schwab Auditorium. The season will include 14 events, ending April 26 with folk singer Joan Baez.

The Lecture Series will open Friday, Oct. 12, with John Canady, art editor of the New York Times, and will include also poet Stephen Spender, Senator Barry Goldwater, and Supreme Court Justice William O. Douglas.

Some of the highlights of the Artists Series will be appearances of Dame Judith Anderson in "Medea"; two performances by the Phoenix Theatre of "The Matchmaker"; the Pittsburgh Symphony and Netherlands Chamber orchestras; the Jose Limon Dance Company and a program titled "America Dances," with Ruth St. Denis, Melissa Hayden, and Matt Mattox; and various soloists and groups.

As in the past, ticket distribution to students (free) will begin three or four days before each performance and ticket sales to the public a day later. Tickets this year will be priced at \$1.50; children will be charged only \$1 for performances in Recreation Building.

Performances in Recreation Building will begin at 8 p.m. and those in Schwab Auditorium at 8:30 p.m.

The complete program for the Artists Series:

Oct. 6, John Browning, pianist; Oct. 19, New York Pro Musica; Oct. 27, two performances, Phoenix Theatre, in "The Matchmaker."

Nov. 9 and 10, Dame Judith Anderson, in "Medea"; Nov. 28, Sangeeta Madras, in music from South India.

Jan. 12, cellist Janos Starker and pianist Gyorgy Sebok; Jan. 17, violinist Ruggerio Ricci.

Feb. 3, Jose Limon Dance Company; Feb. 8 and 9, "The Turn of the Screw," with Patricia Neway; Feb. 16, soprano Phyllis Curtin; Feb. 23, Netherlands Chamber Orchestra.

March 3, "America Dances," with Ruth St. Denis; April 7, Pittsburgh Symphony Orchestra; April 25 and 26, folk-singer Joan Baez.

The program of the Lecture Series includes:

Oct. 12, John Canady; Jan. 25, Stephen Spender; April 5, Sen. Barry Goldwater; April 19, Justice William O. Douglas.

Work wanted

The Office of Student Aid (Room 218 Willard, UN 5-6301) serves as a referral agency for students seeking jobs in the community and for residents seeking students to do a wide variety of tasks from babysitting to highly technical work.

Faculty members are invited to make use of the referral service, at no charge. When the job has been filled, they are asked to inform the office. Also, comments from an employer regarding the student's performance are welcomed.

On the question of fair hourly rates, the Office suggests that for such jobs as housework and garden and lawn care, a minimum of \$1.00 per hour is reasonable and that \$1.25 is becoming more common; babysitting calls for a minimum of \$.50 per hour depending on number of children; highly skilled labor commands a higher wage.

Summer statistics

Final enrollment statistics for the Summer Term at University Park list a total of 6,775 students enrolled in all programs, including full-time, part-time, and associate degree candidates. The total at the Commonwealth Campuses was 659, and of off-campus research 65, for a grand total of 7,499.

The total of 3,570 undergraduates at University Park included 2,682 full-time, 301 part-time, and 587 associate degree students. The total of graduate students was 2,693 and of special students 512.

There were 536 beginning freshmen at University Park and the Commonwealth Campuses, including 498 bachelor's degree and 38 associate degree candidates.

Enrollment of undergraduates by college, at University Park was: Agriculture, 254; Business Administration, 312; Chemistry and Physics, 172; Education, 708; Engineering and Architecture, 536; Home Economics, 138; Liberal Arts, 575; Mineral Industries, 134; Physical Education, 59; and Division of Counseling, 95.

Liberal Arts

Two events of interest to the faculty of the College of the Liberal Arts have been announced: Thursday, Sept. 27, a meeting of the entire faculty at 3:55 p.m. in Room 121 Sparks; Sunday, Sept. 30, the annual tea honoring new faculty members, 3-5 p.m., HUB Lounge.

Trade with Russia

THIS country's policies controlling trade with Soviet bloc and other Communist countries have failed in their intended purposes and should be changed, says Dr. Vaclav E. Mares, associate professor of economics.

Writing in the August issue of "Current History," Dr. Mares traces the history of trade with the Communists in the last two decades, and especially under the Export Control Act of 1949, provisions of which were extended in June for another three-year period by the Congress. In the article, he says in part:

"... even should the United States decide not to resume immediately its trade with the Soviet bloc, it would definitely gain in the long run by its close support of West European trade interests. It could greatly facilitate the forming of a common front for negotiations with the Soviet bloc by new, liberal legislation pertaining to export controls and export credits; the existing laws are outdated and need to be revised."

One of the three basic purposes of the 1949 Export Control Act was "to exercise the necessary vigilance over exports from the standpoint of their significance to the national security."

"Since the time that the Soviet bloc replaced Nazi Germany as the main potential threat to our security," says Dr. Mares, "the shipments to its countries have been receiving the main attention of our export control administrators. Thus, during all the years of cold war, our export controls have been the main determinants of the volume of United States-Soviet trade."

As a result of these controls, shipments to Eastern Europe were at a virtual standstill from 1951 until Stalin's death and the "political relaxation after Stalin's death was followed only slowly by trade expansion between the U. S. and the Soviet bloc." Since the middle of 1957 there has been some increase in exports to Eastern European countries, accounted for almost entirely by aid and credits extended to Poland for purchases of our wheat and cotton.

Basically, the failure of the Export Control Act to accomplish its mission can be laid to the fact that other countries took up the slack in trading with the Soviet Union. Between 1955 and 1960, Soviet bloc exports to the six Common Market countries doubled and imports from these same countries quadrupled. West Germany by 1960 had become the largest supplier of goods to the Soviets of

all the non-bloc countries and was supplying the Soviet countries with laminated steel, transport equipment, chemicals, power generating and other machinery products of advanced technology, and complete plant installations, things the Soviets needed most.

In 1960, for example, West Germany, the United Kingdom, France, and Italy each were exporting to Sino-Soviet countries (Soviet bloc plus Communist China, Outer Mongolia, North Korea, and North Vietnam) more goods than the U. S., in terms of U.S. dollars. Belgium-Luxembourg was not far behind. In addition, of all the countries in the NATO group (minus Iceland but plus Japan), only Canada exported less to the Sino-Soviet bloc in proportion to its total exports. Greece, for example, sent 22 per cent of its total exports to "bloc" countries, Turkey 12.1 per cent, Italy 5.8, West Germany 4.7, United Kingdom 3.0, and the United States only 0.9 per cent.

The picture is very similar in the case of NATO countries importing from the Sino-Soviet bloc. The United Kingdom imported \$459 million worth of goods from Iron Curtain countries compared to \$83 million worth by the U.S.; West Germany, Italy, France, Japan, Denmark, and Belgium-Luxembourg all imported more than this country (both in dollar values and in percentages of their total imports.)

Not only has the Export Control Act failed in terms of volume of trade with the Soviet Union, it has failed also to control the type of exports, because many other nations do not regard as "strategic" the same materials the U.S. does.

"The fear of possible Soviet aggression," says Dr. Mares, "was less of a determining factor in Western European countries than here in the matter of trade policies."

The Soviet Union found, during Stalin's regime, that it lost contact with a variety of technological innovations developed by Western competitive enterprises by his policy of limiting extra-bloc trade. After his death, the Soviets made an obvious attempt to develop such trade and

Dr. Vaclav E. Mares



The article by Dr. Mares in *Current History* referred to in the accompanying story is one of seven on "U. S. Trade Policy, 1962" by seven specialists throughout the country. Authors include Seymour E. Harris, Harvard University professor of political economy; Robert

J. Alexander, professor of economics, Rutgers University; and William N. Leonard, professor of economics, Hofstra College, among others.

Dr. Mares was born in Czechoslovakia and was educated there as well as at universities in Strasbourg and Paris. Before the war he was with the largest coal and steel producing firm in Czechoslovakia. After the war he was appointed commercial counselor to the Czechoslovak Embassy in Washington, D. C., and was a member of the official delegations to the U. N. General Assembly in 1946 and 1947, to the FAO meetings in Washington in the same years, and to the International Wheat Conference in 1947.

In 1948, following the Communist coup in his native country, Dr. Mares joined the faculty here and in 1953 became an American citizen. His teaching includes courses and seminars in international economics and his writing is often in the field of European trade and commerce.

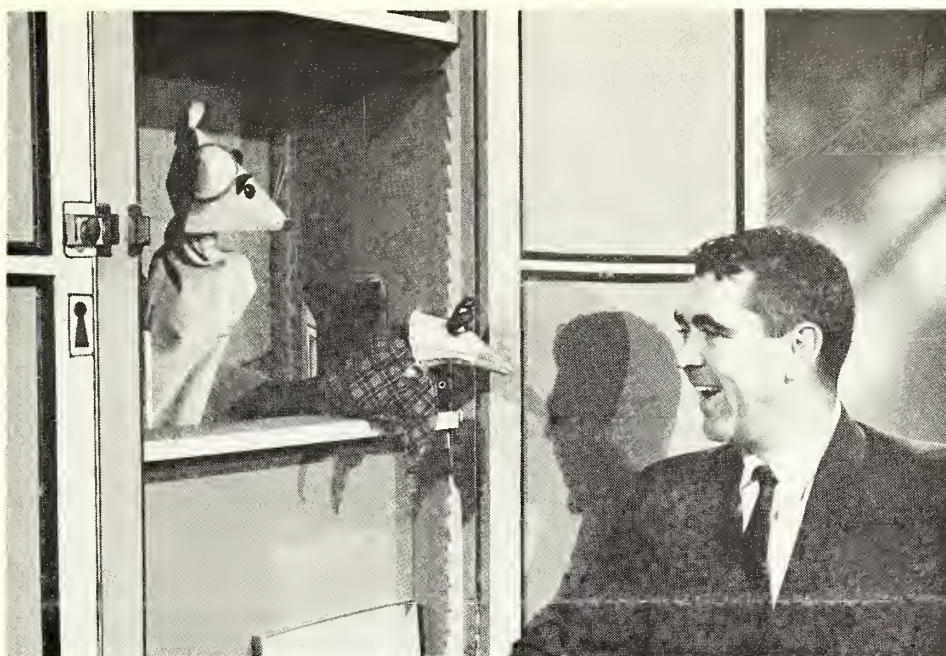
by 1960 non-bloc imports accounted for 32 per cent of the Soviet Union's total imports. The Russian satellite countries expanded their non-bloc trade to an even greater degree.

The isolation of U.S. economic policy from that of other members of the Atlantic Alliance has been well recognized and a study of the problem was made by the Joint Economic Committee of the Congress. A general consensus of the voluminous reports issued was that our virtual trade embargo against the Soviet bloc did not affect the development of Communist countries.

"It is also generally agreed," says Dr. Mares, "that strategic embargo should be either completely discarded or limited to a list of products which would be acceptable to the West European nations."

Liberalizing legislation concerning the export problem would, in Dr. Mares' view, remove one of the old causes of frequent U.S. disagreements with its Western allies and with the Soviet Union.

"This would strengthen the partnership spirit among the members of the Atlantic community and lend stature to the group in its ideological and economic contest with the East," Dr. Mares concludes.



Dr. Edward Mattil and friends in new television series.

Key to the Cupboard

The second show in a 12-part television series titled "Key to the Cupboard" produced by University faculty and staff members will be seen tomorrow (Saturday) at 8:30 a.m. on WFBG-TV, Altoona, Channel 10.

Designed to instill creative ideas in children through the use of commonplace materials found in every home, the series grew out of the Saturday art classes for school children conducted by the art education department for a number of years.

Dr. Edward L. Mattil, head of the art education department is host of the series, which features other faculty members each week in demonstration lectures.

A puppet, Francois the Poet, speaks in rhymes, as he is manipulated by George Latshaw, one of the country's leading puppeteers who was a member of the faculty this summer. Dr. Alice Schwartz, former graduate student now professor of art education at Southern Illinois University, is "Miss Alice," who does most of the on-camera demonstrations.

Mrs. Marilyn Pappas opened the series last week and Dr. Mattil will be featured tomorrow morning. Others to be seen in future weeks are George Pappas, Kelly Yeaton, Duncan Ross, Bruce Shobaken, George Zoretich, Arthur O. Lewis, Philip F. Hallock, and Kenneth Beitel.

Written and produced by Gilbert S. Aberg, head of the radio and television section in the department of public information, the series was directed by Luther F. Kepler, Jr.

Scholarships

Three new scholarship plans were announced recently. They are:

William Allen Dunn Memorial Scholarship—established by an anonymous donor in memory of a 16-year old student at Oakmont, Pa., high school who was killed in an auto accident at Easter time this year. To aid an Oakmont graduate in financial need, \$1,000 per year for a maximum of four years, one scholarship to be given each year.

Walter Thomas Scholarship—established by the will of the late Dr. Walter Thomas, professor of plant nutrition, one or more scholarships each year for students whose primary studies, either as undergraduate or graduate students, are in the field of plant nutrition in the department of horticulture. A committee in the department of horticulture, will recommend students on the basis of need, character, and scholastic standing.

Agricultural and Biological Chemistry Scholarship—established by gifts of friends and alumni of the department, the amount and number of scholarships to depend on further gifts. Recipients will be chosen on the basis of need, character, and professional potential.

Pugh bust

A bronze bust of Dr. Evan Pugh, first president of the University, from 1859 to 1864, has been placed in Old Main lobby. The work of Allen Harris, it was presented by the Class of 1911 and is the fourth of noted faculty members to be given by the class.

PERSONNEL MATTERS

Agriculture

George T. Davis, research assistant in poultry science.

Nicholas Muhlenberg, research assistant in forestry.

Chemistry and Physics

Robert A. Bernoff, assistant professor of chemistry (Ogontz).

George P. Fresco, research assistant in chemical engineering.

Education

Terry L. Eidell, research assistant in secondary education.

Jay G. Elicker, research assistant in secondary education.

Engineering and Architecture

Thomas B. Brown, instructor in architecture.

Leo Lawrence Buck, instructor in general engineering (McKeesport).

Archibald J. McDonnell, research assistant in civil engineering.

Liberal Arts

George L. Mauner, assistant professor of art and architectural history.

Thomas H. Olbricht, instructor of speech.

A. Kathryn Pontzer, assistant professor of English, DuBois.

Robert G. Price, instructor of philosophy.

Gordon M. Shedd, instructor of English.

Donald L. Smith, assistant professor of journalism.

James Steen, assistant professor of English, McKeesport.

Mary Thomas, instructor of speech.

Mineral Industries

Eugene Hryckowian, research assistant in geochemistry.

Physical Education and Athletics

William Hess, instructor in physical education.

Helen Hungerford, instructor in physical education.

William Swan, instructor in physical education.

Agricultural and Home Economics Extension

Magdalene R. Russell, assistant professor of home management extension.

James P. Gallagher, assistant county agent.

Joseph F. Lutz, assistant county agent.

Retirements

Dr. Brice Harris, who joined the faculty in English in 1947 and served as head of the department of English literature until 1957 when the departments of English literature and English composition were merged, retired Sept. 1 with emeritus rank. He taught at Cornell University and the University of Illinois before coming here.

Dr. H. David Rix, who has been on leave since July 1, 1961, conducting research at the United Aircraft Corp. Research Laboratory, has retired as associate professor of physics. He began his Penn State career as instructor in English composition in 1930 and transferred to the department of physics in 1943.

Housemothers

Applications for positions as fraternity housemothers are being accepted by the Fraternity Affairs Office, 203 Hetzel Union Building.

Duties of housemothers are: aid the officers and members in maintaining high standards of dress and personal conduct; act as official hostess and chaperone; counsel members on personal and social problems; and perform other duties.

Desirable qualifications include: age between 45 and 60; a widow or wife with grown children; a college education; experience in working with college-age students.

Hours of employment are 8 p.m. to 1 a.m. every Friday and Saturday night and at other times when the fraternity is entertaining women guests.

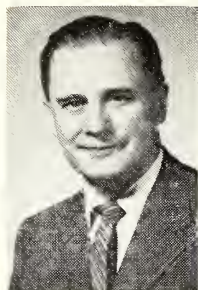
Mushroom meeting

Dr. Leon R. Kneebone, professor of botany and plant pathology in charge of mushroom research, is chairman of the national committee organizing the Fifth International Mushroom Congress to be held in Philadelphia Oct. 28 to Nov. 2.

Hosts for the Congress will be the American Mushroom Institute at Kennett Square, Pa., and the 600 commercial growers in the Commonwealth.

Papers will be given by mushroom experts from Canada, England, Switzerland, Denmark, West Germany, Hungary, France, The Netherlands, and the U.S. Five papers will be given by Penn State faculty members.

Cutler resigns



Dr. Howard A. Cutler, assistant to the President and a member of the faculty or staff since 1951, has resigned to become president of the University of Alaska, effective Oct. 1.

In his new position, Dr. Cutler will direct the entire academic program, including the six colleges on the main university campus near Fairbanks and five community college branches at Anchorage, Ketchikan, Juneau-Douglas, Palmer, and Sitka. He will also supervise the library, admissions office, the Museum of the Far North, and all extension activities of the University.

Dr. Cutler came to Penn State as assistant professor of economics after having taught at the University of Illinois, the State University of Iowa, and the University of Minnesota.

Food service

Food service in the Home Economics cafeteria by classes in Hotel and Institution Administration will start with dinner Wednesday, Sept. 26, and luncheon Thursday, Sept. 27. Cafeteria luncheons will be served Monday through Friday, 11:45 to 12:45 and tea room dinner menu with table service Monday through Thursday, 5:15 to 6:30 p.m.

GRAD EXAM

The regular written Foreign Language Examinations will be held Monday, Oct. 22. The conflict exam will be held on Tuesday, Oct. 23.

Patents

Two patents have been issued to personnel of the Ordnance Research Laboratory.

U. S. Patent 3,041,547 has been granted to Francis P. Finlon, associate professor of engineering research, and Emil W. Lehmann, former member of the Laboratory, for a variable-frequency phase shifter. The principal application of the phase shifter is in electronic testing.

Robert C. Eck, research associate, has been granted U. S. Patent 3,045,627 for a depth control system for underwater devices.

SENATE MINUTES

ANNUAL REPORT

LIBRARY COMMITTEE —

The University Senate Library Committee met formally on only one occasion during 1962 at which time discussion centered around the pros and cons of branch and departmental libraries as opposed to a strong central library. The Committee endorsed a request for establishment of a Physical Sciences Library submitted by the Department of Mathematics. No business was submitted to the Committee by the Senate.

It is expected that during the coming year the Committee will concern itself with basic policies bearing upon the relationship between the University Library and the University community as a whole.

C. L. Hosler, Chairman

Singers needed

The State College Choral Society, directed by Raymond Brown, associate professor of music, is in need of additional singers for the 1962-63 production of Joshua, by Handel. Faculty and staff members interested should call Mr. Brown at UN 5-5489 or AD 8-8723. Tenors and basses are especially needed.

faculty BULLETIN

Vol. 50, No. 10 Sept. 21, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

VanZandt speaks

James E. VanZandt, Representative to the U. S. Congress from the 20th District of Pennsylvania and Republican candidate for the U. S. Senate, will address students, faculty, and townspeople Friday, Oct. 5, at 8:30 p.m. in Schwab Auditorium.

Free tickets are available today (Friday) at the Hetzel Union Building desk, to be distributed on a first-come, first-served basis.

Other candidates for major offices in the forthcoming elections will speak the following week on campus. The Hon. Richardson Dilworth, Democratic candidate for governor, will speak Tuesday, Oct. 9, at 8 p.m., and William Scranton, Republican candidate for governor, will speak at 12:30 p.m. on Thursday, Oct. 11.

Sen. Joseph S. Clark, Democratic candidate for the Senate, spoke on campus Aug. 8.

Argentina program

An agreement has been signed by the University with the Instituto Nacional de Tecnologia Agropecuaria of Argentina whereby help in the improving and developing of deciduous fruit production in the upper valley of the Rio Negro of Argentina will be provided by the College of Agriculture.

The five-year agreement, to run from Jan. 1, 1963, to Dec. 31, 1968, will cost an estimated \$1 million. The University will be responsible for providing advice and technical assistance.
(Continued on page two)

Marketing symposium

An industrial marketing research symposium, open to all faculty members interested in the general topic, will be held in the HUB assembly room, Tuesday, Oct. 2, from 10 a.m. to 4 p.m.

Four industrial leaders concerned with marketing problems will speak:

Jesse A. Miller, E. J. Lavino Co., on "Marketing Research for Mineral Raw Materials," 10 a.m.

Edward Bloom, statistical research division, Sun Oil Co., on "S.L.C.—Its Description and Use," 11 a.m.

R. A. Pitcairn, manager of commercial research, Crucible Steel Co. of America, on "Economic and Statistical Analysis, A Prerequisite for Marketing Studies," 1:15 p.m.

Clarke W. Slade, Jr., manager, marketing research, Atlas Chemical Industries, Inc., on "Field Interviewing," 2:15 p.m.

A panel discussion on "Training for Careers in Industrial Marketing Research," will be held at 3:15 p.m.

The program is sponsored by the department of mineral economics in cooperation with the departments of chemical engineering, chemistry, commerce and management, industrial engineering, and metallurgy.

Faculty forum

Dr. Benjamin E. Mays, president of Morehouse College, Atlanta, Georgia, will be the speaker at a Faculty Forum to be held Saturday, September 29, at 8:00 p.m.

He will talk on "The Present State of Integration in the South," in the Memorial Lounge of the Chapel, sponsored by the U. C. A. Faculty Committee.

Dr. Mays has been president of Morehouse College since 1940. He holds his baccalaureate degree from Bates College and his M.A. and Ph.D. from the University of Chicago. He is an eminent educator and the author of many articles and several books. He is a member of the National Advisory Council of the Peace Corps and the Advisory Council of the United States Committee to the United Nations.

Glee Club televised

A video-taped presentation of the Men's Glee Club will be made by television station WGAL-TV, Lancaster, from 12:30 to 1 p.m., Saturday, Sept. 29. The station is on Channel 8.

Artists series

Tickets for the Artists Series program by pianist John Browning on Saturday, Oct. 6, will be distributed to the general public Thursday and Friday, Oct. 4-5 at the HUB desk. They are priced at \$1.50.

McGeary named

Dr. M. Nelson McGeary, professor of political science and a member of the faculty since 1939, has been named assistant to the President.

He succeeds Dr. Howard A. Cutler, who has been appointed academic vice president of the University of Alaska.

Dr. McGeary has served two three-year terms as head of the department of political science. He has made many studies on the improvement of governmental practices in the Commonwealth and was consultant to the Penna. Commission on Governmental Reorganization in 1956 and a member of the 1958-59 Commission on Constitutional Revision.

As secretary of the faculty committee on evaluation, Dr. McGeary has worked closely with the President in the development of the program.

A graduate of Lafayette College, he was with R.C.A. Victor for seven years, then entered graduate school at Columbia University, where he received master of arts and doctor of philosophy degrees in political science. Since joining the Penn State faculty, he was on leave for a three-year period for military service, and was Naval officer with military government forces on Guam.

Lectures in Russia



Dr. Joseph Marin, professor and head of the department of engineering mechanics, will give a series of lectures during the first three weeks of October at the Academy of Sciences of the Soviet Union in Moscow.

Subject of the lectures is the mechanics of creep and plastics of materials.

Dr. Marin will also visit educational institutions and laboratories during his visit, which is the start of a six-month leave during which he will also give lectures in Israel, India, and Japan. He will also do research in solid state mechanics during his leave.



John Fischer

Jean Mayer

Mark Starr

Graduate lecture series

A labor educator, a magazine editor, and a nutritionist will speak in the Graduate School Lecture Series for the Fall Term.

Mark Starr, former education director of the International Ladies Garment Workers Union and author of many books and pamphlets on labor education, will open the Series Tuesday, Oct. 2. The department of labor education is co-sponsor of the event. He will speak on "Education Curse or Cure."

All lectures will be given at 8 p.m. in Room 121 Sparks.

On Thursday, Oct. 25, John Fischer, editor of Harper's Magazine, will speak on "What Students Could Do to Improve the Quality of University Education."

Dr. Jean Mayer, visiting professor at the School of Public Health, Harvard University, will speak on "Obesity: Physiological, Psychological, and Social Aspects," on Thursday, Nov. 8.

Starr, who has been a frequent lecturer at colleges and universities, is a life-long trade unionist and cooperator beginning with his days in the mines of South Wales. Before coming to the U.S. in 1928 he had already written three widely-used textbooks on labor and had taught British labor history at Brookwood Labor College and served as extension director.

From 1935 to 1960, Starr held the position of education director of the ILGWU and in that period other positions in labor, including ten years as president of Local 189, American Federation of Teachers and two years as national vice president of that union.

Among Starr's writings are: "A Worker Looks at History"; "Trade Unionism—Past and Future"; "Labor and the American Way"; and co-author of "Labor in America," a fourth-year high school textbook.

In his talk, Starr will discuss such subjects as neglected areas in education, some examples of dangerous trends in education, and some cures needed.

Argentina—

(Continued from page one)

ance necessary for the program, and for the initiation and operation of training projects to acquaint Instituto personnel with modern methods used in the growing, processing, and marketing of fruit.

Dr. Chester Hitz, professor of pomology, has represented the University in developing the agreement. He was one of four who visited Argentina earlier this year to determine the practicality of the University entering into the agreement. The others were Dr. Russell E. Larson, associate dean of the College of Agriculture and director of agricultural and home economics extension; Dr. C. F. Taylor, professor of plant pathology extension; and Dr. C. Marshall Ritter, associate professor of pomology.

Among the projects already planned under the program are: studies of the size and variety of fruits for export; fertilization and irrigation of the Rio Negro Valley; handling and storage of apples and pears; demographic and sociological conditions in the Valley; orchard management; soils; insects and diseases; and training and pruning of apple and pear trees.

It is also expected that Argentine graduate students may come to Penn State for further training and that Penn State graduate students will go to the Argentine to help in the work and obtain thesis credits there.

PERSONNEL MATTERS

LEAVES OF ABSENCE

Edward S. Kenney, research associate in nuclear engineering and assistant to the director of the nuclear reactor, will work toward his doctor of philosophy degree, under a Ford Foundation fellowship for advanced study, while on leave from Sept. 16 to June 30.

Dr. Franklin B. Krauss, head of the department of Romance languages, will be on leave for the Winter and Spring Terms to travel through Europe, particularly the Mediterranean area, conducting research into Mediterranean languages and literature in the classics.

Joseph L. Grucci, associate professor of English composition, will be on leave from Sept. 1, 1963 to Aug. 31, 1964, and will spend much of the year in Italy, working on his own poetry as well as translating the works of major contemporary Italian poets.

Additional appointments to the faculty included the following:

Agriculture

Ronald W. Dietz, assistant Cumberland county agent.
Dawn H. Tuttle, assistant professor of rural sociology.

Business Administration

Robert E. Malcolm, assistant professor of accounting.
Thomas E. Morrison, instructor in accounting.

Chemistry and Physics

Shigeo Hatsukade, research associate in physics.
Peter B. Shaw, research associate in physics.

Education

George D. Weigel, assistant professor of counseling in education.

Engineering and Architecture

Louis P. Inserra, instructor in architecture.
Joel Markowitz, instructor in civil engineering.
William S. Walker, assistant professor of general engineering.

Home Economics

Eleanor J. Caldwell, associate professor of family housing and home art.

Liberal Arts

Barron S. Collier, instructor in speech.
Herbert Ershkowitz, instructor in history.
Joseph P. Fell, instructor in philosophy.
George W. Lowis, instructor in sociology and anthropology.
J. Paul Mitchell, instructor in history.
August L. Peastrel, assistant professor of psychology.
Yvan R. Quintin, instructor in Romance languages.

Mary Jean Thomas, instructor in speech.
William A. Wisdom, instructor in philosophy.

Edward D. Yates, instructor in journalism.

Mineral Industries

William H. Bitler, associate professor of metallurgy.
Edwin F. Danielsen, associate professor of meteorology.

CALENDAR

FRIDAY, SEPTEMBER 28

Graduate Student Association square dance, Hetzel Union Building.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Francis R. Hama, University of Maryland, on "Progressive Deformation of a Curved Vortex Filament."

SATURDAY, SEPT. 29

Football, vs. Air Force Academy, 1:30 p.m., Beaver Stadium.

University Christian Association Faculty Forum, 8 p.m., Helen Eakin Eisenhower Chapel. Dr. Benjamin E. Mays, president of Morehouse College, Atlanta, Ga., on "The Present State of Integration in the South."

SUNDAY, SEPTEMBER 30

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Benjamin Mays, president, Morehouse College, on "Who Are The Least of These?"

College of the Liberal Arts faculty tea honoring new faculty members, 3-5 p.m., Hetzel Union Building lounge.

MONDAY, OCTOBER 1

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Frederick W. Bateson, distinguished visiting professor of English, on "An Englishman Looks at America."

Engineering Mechanics Seminar, 4 p.m., Room 213 Hammond. C. K. Lim, graduate assistant, on "Large Elastic Deformation Theory and Experimental Applications."

TUESDAY, OCTOBER 2

Industrial Marketing Research Symposium, 10 a.m. to 4 p.m., HUB Assembly Room, with four leaders in industrial marketing as speakers.

University Senate meeting, 3:55 p.m., Room 121 Sparks.

WEDNESDAY, OCTOBER 3

Fluid Mechanics Seminar, 4 p.m., Room 1 Sackett. Prof. A. E. Bretting, Hydraulic Laboratory, Technical University of Denmark, on "Sediment Transport."

FRIDAY, OCTOBER 5

Interlandia Folk Dance, 7:30 to 11 p.m., HUB Ball Room.

Television Listings

SECOND CHAIR

WBFG-TV, Altoona, 9-9:15 a.m.

Oct. 1, Dr. R. T. Duquet, assistant professor of meteorology, on **TYROS**; **Oct. 2**, Dr. M. E. Rozen, assistant professor of economics, on **Cuba**; **Oct. 3**, Dr. R. T. Oliver, head of the speech department, on the **U. S. and India**; **Oct. 4**, W. R. Monat, associate professor, Institute of Public Administration; **Oct. 5**, Dr. David H. McKinley, associate dean of business administration, on the 1963 business outlook.

KEY TO THE CUPBOARD

WBFG-TV, Altoona, 8:30 a.m.

Sept. 29, Dr. E. L. Matill, head of the art education dept.

FARM, HOME AND GARDEN

WBFG-TV, Altoona, 1-1:30

Oct. 1, John Holbert, on Bedford County soil test week; **Oct. 2**, Ivan Parkin, on vacuum systems; **Oct. 3**, Helen Butler, on breakfast; **Oct. 4**, Jane Marhefka, on apples; **Oct. 5**, Charles Lutz, on insecticide storage.

ITEMS OF INTEREST

Honors and Awards

MCCORMICK, B. W., aeronautical engineering, cited by the Institute of Aerospace Sciences as one of the Outstanding Faculty Advisors of the Year.

Lectures and Talks

ANDREWS, FRANCES M., music education, visiting lecturer two days at the New England Conservatory of Music and at the University of Wisconsin School of Music.

BEASLEY, K. E., political science and public administration, at the Executive Development Institute, University of Kansas.

BEITTEL, K. R., art education, "Implications for Education of Recent Research in Art Education," before the Central Ohio Teachers Association at Ohio State University.

FERRARA, W. L., accounting, "Budgeting as a Tool of Planning and Control" at a New England Management Workshop sponsored by the Professional Photographers of America and the Photographers Association of New England.

HASSLER, W. W., JR., history, "General McClellan in the Maryland Campaign of 1862," before the Lincoln-Civil War Society of Philadelphia.

JORDAN, JOSEPH, chemistry, "Methodological Status and Mechanistic Significance of Electrode Kinetics," at the symposium on Mechanism of Electrode Reactions sponsored by the Division of Physical Chemistry of the American Chemical Society.

MCKINLEY, D. H., Business Administration, "The Business Outlook for 1963," before the Reading, Pa., Rotary Club.

— "Money Market—Demand and Supply" before a session of the Penna. Bankers Association Summer School at Bucknell University.

— "Consumer Credit in Relation to Gross National Product in 1963," at the meeting of the Penna. Credit Union League at Bedford Springs.

MUELLER, E. W., physics, "Field Ion Microscopy of the Defect Structure of Metal Crystals" at the International Conference on Crystal Lattice Defects in Kyoto, Japan.

WERNSTEDT, F. L., geography, a series of lectures on Philippine geography to Peace Corps trainees at Hilo, Hawaii.

Elected and Appointed

ALBERS, V. M., Ordnance Research Lab, appointed associate editor of the Journal of the Acoustical Society of America.

DUBIN, S. S., Continuing Education, elected President-elect, Division of Business and Industrial Psychology of the Penna. Psychological Association.

JORDAN, JOSEPH, chemistry, appointed to the Subcommittee for Electrochemical Kinetics of the International Union of Pure and Applied Chemistry.

MARIN, JOSEPH, engineering mechanics, appointed consulting editor for the Bulletin of Mechanical Engineering Education, published in Great Britain.

SHUMAN, E. C., engineering experiment, reappointed as the American Society for Testing Materials representative on the Technical Planning Committee of the Engineers Joint Council.

To the Advisory Committee, Insurance Department, Commonwealth of Pennsylvania the following: A. L. WILLIAMS, R. H. WHERRY, and GEORGE LUCAS.

WHERRY, R. H., commerce, appointed to the Committee on Curricular Concepts in Risk and Insurance of the American Risk and Insurance Association.

WILLIAMS, A. L., insurance, appointed to the Program Committee of the American Risk and Insurance Association.

Articles and Papers

ALMQUIST, J. O., and AMANN, R. P., dairy science, "Reproductive Capacity of Dairy Bulls. VI. Effect of Unilateral Vasectomy and Ejaculation Frequency on Sperm Reserves; Aspects of Epididymal Physiology," in the Journal of Reprod. Fertil.

— with Hale, E. B., animal behavior, "Measurement of Sperm Production and Its Relation to Sperm Output and Reserves in Dairy Bulls," in the Proceedings of the Fourth International Congress on Animal Reproduction at The Hague.

BEIK, L. L., marketing, "Immediate Recall of TV Commercial Elements," in the September issue, Journal of Advertising Research.

BLACKADAR, A. K., meteorology, "The Vertical Distribution of Wind and Turbulent Exchange in a Neutral Atmosphere," in the July issue of the Journal of Geophysical Research.

BURDETTE, L. A., agricultural extension, "Pennsylvania's 4-H Horse Program," at a meeting of the Northeast Section, American Society of Animal Science at Princeton, N. J.

CARPENTER, C. R., DARS, a paper at the Center for Advanced Study and Behavioral Sciences Primate Symposium at Stanford University, Sept. 4-12.

CRECH, R. G., and MCARDLE, F. J., horticulture, "Genetic Control of Carbohydrate Synthesis in Maize Endosperm" at the annual meeting of the American Society of Agronomy at Cornell University.

DELEIVE, DAGOBERI, Study Abroad, "Patriotism, Citizenship, and Clerical Office," read over the Stuttgart, W. Germany, radio station.

FLIPSE, R. J., dairy science, "Comments on Certain Aspects of the Metabolism of Spermatozoa," in the publication Spermatozoan Motility of The American Association for the Advancement of Science.

GLANTZ, P. J. and BUBASH, GEORGE, veterinary science, with Narotski, Sapul. "E. coli Serotypes Isolated from Salpingitis and Chronic Respiratory Disease of Poultry," in the August issue of Avian Diseases.

HELLER, JULES, School of the Arts, "Problem 1962: Malaise in Wonderland," at the Sixth Annual Symposium on Creative Arts Education at Syracuse University.

KESLER, E. M., dairy science, "Growth of Holstein Calves on Pasture from Six to 20 Weeks of Age," in the February issue of Journal of Dairy Science.



Leonard Feldman, Donald Hopkins, Raymond Page, Joanne Zagst

Alard quartet in residence

THE Alard String Quartet, which was formed in 1954 at the Julliard School of Music and has had a highly successful career since then, is the Quartet-in-Residence for 1962-63.

In addition to presenting concerts both locally and elsewhere, the Quartet will give lecture-recitals and teach.

The only chamber music group to win the coveted Young Artist Award of the National Federation of Music Clubs, the Quartet is composed of Donald Hopkins and Joanne Zagst,

violinists, Raymond Page, violist, and Leonard Feldman, cellist. All are Julliard graduates and have studied also with outstanding teachers.

After a year of junior residency at the University of Texas, the Quartet has been in residency for the past six years at Wilmington College, Wilmington, Ohio. It has appeared in concerts in Dallas, Austin, and Houston, Texas; Cincinnati, Columbus, Toledo, and Dayton, Ohio; New York, N.Y.; and Augusta, Ga., Norfolk, Va., and Newport News, Va.

Last year the group was featured at the American Music Festival in Washington, D. C. Also last year the Quartet toured in Mexico under the auspices of the U. S. Information Service.

Hopkins has appeared at New York's Town Hall, as soloist with the Cincinnati Symphony Orchestra, and with the Schenectady Symphony Orchestra. In addition to the bachelor's degree from Julliard, he has a master's degree from the University of Texas.

Joanne Zagst, who is the wife of cellist Leonard Feldman, has appeared in recital and with orchestras in New York City and throughout the southwest. She has been a faculty member of the Bronx House Music School in New York. She holds both bachelor's and master's degrees from Julliard.

Page studied violin at Julliard and received his bachelor's degree in 1955. In 1957-58 he studied at the Akademie fuer Musik in Vienna and at the Mozarteum in Salzburg as a Fulbright scholar. He was a member of the quartet which represented Austria at the Brussels World's Fair. In 1960 he received a master's degree in music theory from Ohio State University. He has appeared in recital and as soloist with orchestras in the South and in New York.

Leonard Feldman, has done chamber music work with William Kroll, Gregor Piatigorsky, and Hans Letz, has held solo cellist positions in the U. S. Army Band, and was assistant principal cellist of the Rochester Philharmonic Orchestra. He has a master's degree from Eastman School of Music.

faculty BULLETIN

Vol. 50, No. 11 Sept. 28, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Sommer winner

DR. Leo H. Sommer, professor of chemistry, was named one of the 1963 American Chemical Society award winners. Presentations of the awards will be made at national meetings of the Society in Cincinnati and Los Angeles next year.

Specifically, Dr. Sommer is winner of the Frederic Stanley Kipping Award in organosilicon chemistry, sponsored by the Dow Corning Corporation.

A member of the faculty since 1945, Dr. Sommer has been studying silicon chemistry since his graduate student days at Penn State in 1941. More than a thousand organosilicon compounds have been synthesized and studied for the first time in his various research projects, many of which have been aided by grants from Dow Corning Corporation.

Recently returned from a year's leave of absence, Dr. Sommer was the recipient of a Guggenheim Fellowship to conduct studies of a theory of substitution reactions at silicon atoms.

The ACS Awards include an honorarium of not less than \$1,000. They recognize outstanding contribution to the fields of chemistry or chemical engineering. The list of 1963 award winners includes 20 of the outstanding chemists of the country.

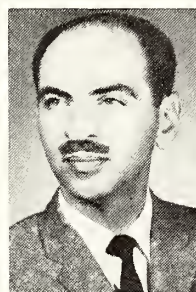
Heller as dean

New College Organized

THE College of Arts and Architecture, with Dr. Jules Heller as dean, will become operational at the beginning of the Winter Term in January.

At its meeting last weekend, the Board of Trustees approved formation of the new college, which will include departments of art, architecture, landscape architecture, music, and theatre arts.

The art, music, and theatre arts departments were the chief components of the School of the Arts, an area of the College of the Liberal Arts since 1955, which will be discontinued.



Dr. Heller

Landscape architecture, a curriculum in the department of horticulture in the College of Agriculture, will become a department in the new college, with Wayne H. Wilson, professor of landscape architecture, as head of the department.

The department of architecture, of which Philip F. Hallock is acting head, is to be moved from the present College of Engineering and Architecture, which will be renamed the College of Engineering.

A department of architectural engineering has also been established in the College of Engineering, to be headed by Gifford H. Albright, associate professor of architectural engineering. The work in this area was carried on as a curriculum in the department of architecture in the past.

Dr. Heller, new dean of the College, served during the summers of 1955 and 1957 as visiting associate professor, while he was a member of the University of California faculty. He returned to the University in June, 1961, to succeed Albert Christ-Janer, who became head of the newly established School in February, 1956.

A graduate of the Arizona State College, with bachelor of arts degree in fine arts and education, Dr. Heller was granted the master of arts degree by Columbia University and doctor of philosophy by the University of Southern California.

Wayne H. Wilson has been a member of the faculty since 1948. He was granted the bachelor of science degree in landscape engineering by the New York State University College of Forestry at Syracuse University in 1935 and master of landscape architecture in 1942 by Iowa State College. He had experience as a landscape

architect with the New York City Department of Parks and the National Park Service, with the Tennessee Valley Authority, and the F.H.A. in Chicago, Ill. He was placed in charge of the landscape architecture curriculum in 1957.

Gifford H. Albright has been a member of the faculty since 1958, heading the Shelter Research and Study Program. He is a graduate of Penn State with a bachelor of architectural engineering degree and was granted the master of science degree by Massachusetts Institute of Technology. He served on the research staff at M.I.T., for three years, was at the Nevada Test Site as project officer with the U. S. Navy, was special assistant with the U. S. Naval Civil Engineering Laboratory, and was project officer at Eniwetok Proving Ground in the Marshall Islands.

Academic structure

Changes few

MAJOR changes in the organizational structure of the academic side of the University are relatively infrequent and when they do occur they generally reflect an increasing emphasis on some area of study which already has had a lengthy existence.

For example, prior to the current change the most recent previous reorganization saw the formation of the School of Business in July, 1953, (with other Schools it became a College in November, 1953). The School was formed basically from the departments of commerce and of economics, which had been part of the School of the Liberal Arts for many years.

Four years earlier, Jan. 1, 1949, the School of Home Economics came into being, springing from the department of home economics of the School of Education, at a time when over 600 students were registered in the curriculum.

A century ago, only a few years after the institution had opened its

(Continued on page two)

Academic—

(Continued from page one)

doors, the organization of the school was very simple; the faculty numbered only six and there was little need for departmental structure. By the 1870's, however, the faculty and student body had grown large enough to justify "departments." There had been some revision of courses and curriculums in the interim.

The first major change in the academic structure came with the establishment by the Board of Trustees of seven schools. This was in 1895, and there were then 13 departments of instruction. The schools named by the Board were:

1. Agriculture—including technical agriculture, agricultural chemistry, horticulture, dairying, and veterinary science.

2. Natural Science—botany, chemistry, geology, and zoology.

3. Mathematics and Physics—mathematics, physics, and kindred branches.

4. Engineering—civil, electrical, and mechanical engineering.

5. Mines.

6. Language and Literature—ancient languages and literatures, modern languages and literatures (except English), and English language and literature.

7. History, Political Science, and Philosophy—history, psychology, ethics and pedagogics, and political and economical science.

The School of Mines was given birth prematurely and a lack of funds required restoration of the work to departmental status in the School of Engineering in 1899.

In 1906-07, further changes took place in structure, the School of Mines and Metallurgy being formed from the department of mining in the School of Engineering. The work in geology was transferred from the School of Natural Science. Mathematics became part of the School of History, Mathematics and Philosophy and physics joined the School of Natural Science. There were again six schools, plus the Institute of Animal Nutrition, which had become a separate entity under the direction of Dr. H. P. Armsby, former dean of the School of Agriculture. Botany became part of the School of Agriculture.

In 1909 a further revision was effected, principally in the areas of the Schools of Language and Literature

and of History, Mathematics, and Philosophy, which were combined into the School of the Liberal Arts. The academic structure was then:

1. Agriculture—agricultural chemistry, agronomy, animal husbandry, animal nutrition, bacteriology, botany, dairy husbandry, forestry, horticulture and meteorology.

2. Engineering—civil, sanitary, electrical, electrochemical, and mechanical engineering.

3. Mines and Metallurgy—mining, metallurgy, mineralogy, geology, and petrography.

4. Natural Science—chemistry, physics, and zoology.

5. Liberal Arts—English, Greek, Latin, German, French, and Spanish, history, mathematics, and philosophy.

In addition, administered separately, were the departments of home economics, industrial arts, and physical education.

With the exception of the addition of certain curricula to several of the Schools, this structure remained intact until 1923. Of special interest in this period, however, were the addition of instruction in agricultural education, landscape architecture and poultry husbandry to the School of Agriculture; of architecture and architectural engineering, industrial, milling, and railway engineering to the School of Engineering; of commerce and finance, teacher training, and pre-law to the School of the Lib-

eral Arts; and of pre-medical to the School of Natural Science.

The reorganization of 1923 was most noteworthy for the development of the School of Education, which gathered together all the departments which had been teaching education courses, including agricultural education, arts and science education, industrial education, and home economics and vocational home economics. Included also was the transfer of the department of education and psychology from the School of the Liberal Arts to the new school.

In June, 1924, the School of Natural Science was reorganized and renamed the School of Chemistry and Physics, with curricula in chemistry, chemical engineering, physics, science, and pre-medical preparation. The work in zoology was transferred to the School of Agriculture.

In 1929, the former School of Mines and Metallurgy was renamed School of Mineral Industries. A year later, the Board of Trustees recognized the work of the department of physical education by naming it a School, noting that members of the staff would have academic status.

From then until the School of Home Economics was organized in 1949, the academic structure remained relatively stable, although new departments were formed within the schools and others were consolidated.

Building plans announced

Final plans for six building projects and sketch plans for three others were approved by the Board of Trustees last weekend.

The six final plans approved, for which the G.S.A. is expected to ask for bids early next year, include the following:

Life Sciences—located west of Frear Laboratory. Seven floors. Allocation by G.S.A. of \$1,750,000 and by National Institutes of Health of \$831,690.

Earth Sciences—located south of Mineral Sciences Bldg., on site of present Continuing Education Building. Seven floors. G.S.A. has allocated \$2,587,500 and National Science Foundation \$600,000.

Physical Education—extension of main unit to west, increasing length of present structure by 90 feet. G.S.A. has allocated \$1,300,000. This is in addition to construction currently underway south of the present building.

Conference Center—for Continuing Education Services, on former Beaver Field, near Park Ave. Six floors with assembly room seating nearly 400. G.S.A. authorized \$1,825,000.

Computer Facilities Center—first unit, east of the Pasture Research Laboratory at Bigler and Curtin Roads. Estimated cost \$575,000.

Beef Cattle and Sheep Barns—relocation and expansion, to Farm No. 5 near the orchard area. G.S.A. allocated \$925,000.

Sketch plans have been approved for the following:

Willard Building—addition to classrooms, east of the present building.

Pattee Library—addition to the west of present building.

Physical Sciences—first unit of a major building extending from near the Psychology Laboratory north of Schwab Auditorium to near Osmond Laboratory.

Invitation of ARL accepted

THE University has accepted the invitation of the Association of Research Libraries to become a member of the Association.

Membership in the Association is on an institutional basis and is by invitation. Currently there are 48 members, a majority of them libraries at colleges and universities but including some private libraries which have research materials.

Penn State and the University of Pittsburgh were among those recently invited to join the Association.

Criteria for membership include emphasis by the institution on research and graduate instruction at the doctoral level and support of large, comprehensive collections of library materials on a permanent basis. In evaluating potential members, consideration is given to the number of Ph.D. degrees conferred, number of distinct disciplines in which the doctorate is offered, the amount spent for books, periodicals, and binding, and other criteria.

One of the principal advantages to the University of membership in the A.R.L. is that it becomes part of the group which is determining the direction of development of research libraries in this country, explains Ralph W. McComb, University librarian.

The Association is a working group which has, for example, aided in the development of the Farmington Plan for acquisition of important scholarly and scientific books from all countries; sponsored a number of bibliographic projects; and promoted the microfilming of doctoral dissertations in American universities.

Some of the members of the Association are the Library of Congress, Boston Public Library, New York Public Library, and a number of the libraries of state universities.

WOODROW WILSON

Nominations for Woodrow Wilson National Fellowships must be submitted no later than Oct. 31. One thousand awards will be granted this year to first-year graduate students who think that a college teaching career is, at least, a possibility to them.

The student must be nominated by a faculty member, in a letter or postcard to Prof. Paul Fussell, Jr., Box 532, Rutgers University, New Brunswick, N. J., stating the candidate's name, address, and proposed field of graduate study. Nominees should have some proficiency in one or more foreign languages.

Although candidates in the humanities and social sciences are the usual recipients of Woodrow Wilson Foundation support, majors in science and mathematics may be nominated if they have a clear interest in a teaching career.

Questions may be directed to the office of the Assistant to the President, 5-6577.

Siegel honored

The late Dr. Sidney Siegel, who was research professor of psychology prior to his death in November, 1961, was honored at the recent national meeting of the American Psychological Association in St. Louis, Mo.

A symposium on "Decision Making, Learning, and Choice Behavior—A Memorial Symposium for Sidney Siegel," featured papers by three of his colleagues and by three other psychologists working in the areas of research to which Dr. Siegel contributed.

Major papers were contributed by Dr. L. E. Fouraker, Robert Radlow, and Julia McMichael Andrews, all of whom had collaborated in research with Dr. Siegel.

Clinic award

Staff members of the Speech and Hearing Clinic have established an award, to be given each year to deserving students in the field of clinical speech and hearing.

The award will consist of an engraved memento and will be given at the annual banquet of Sigma Alpha Eta, national speech and hearing honorary society, near the end of the Spring Term.

To be eligible, a student must expect to complete 18 credits in Clinical Speech and Hearing by the time he receives the baccalaureate degree; must be active in Sigma Alpha Eta; must demonstrate high scholarship and professional interest; and must have high potential in the field of speech and hearing therapy.

Chemistry meeting

Dr. Daryle H. Busch, professor of chemistry at Ohio State University, will address the 280th meeting of the Central Pennsylvania Section of the American Chemical Society Wednesday, Oct. 10, at 8 p.m. in Room 119, Osmond. He will speak on "Organic Reactions of Ligands in Metal Complexes."

Browning plays

John Browning, young pianist who has already made appearances with the leading symphony orchestras in this country and who has made two European tours, will open the Artists Series tomorrow evening (Saturday) in Schwab Auditorium at 8:30 p.m.

Two weeks ago Browning was given an ovation in his appearance with the Boston Symphony Orchestra at New York's Philharmonic Hall.

The program will include Francois Couperin's "Pieces de Clavecin"; Chopin's "Fantasy in F Minor"; Samuel Barber's Sonata, Op. 26; Debussy's Preludes; and Schumann's Etudes Symphoniques.

Next Artists Series program will be by the New York Pro Musica Friday, Oct. 19. General sales of tickets will be made Oct. 17-18.

Dilworth, Scranton

Gubernatorial candidates Richardson Dilworth (D) and William W. Scranton (R) will speak next week in Schwab Auditorium. Tickets will be available to students, faculty and staff, and townspeople at the HUB desk.

Mr. Dilworth will speak Tuesday, Oct. 9, at 8:00 p.m. Tickets will be distributed to non-students Oct. 5, from 9 a.m. to 12 noon and 1 to 5 p.m.; Oct. 6, from 9 a.m. to 12 noon; and Oct. 8 and 9, from 9 a.m. to 12 noon and 1 to 5 p.m.

Mr. Scranton will speak Thursday, Oct. 11, at 12:30 p.m. Tickets will be distributed to non-students Oct. 9, from 9 a.m. to 12 noon, 1 to 5 p.m.; Oct. 10 and 11, 9 a.m. to 12 noon.

Tickets are free.

Biological talk

Dr. John R. Olive, Deputy Executive Director of the American Institute of Biological Sciences, will give the first of the current series of lectures sponsored by the Biological Sciences Lectures Committee Tuesday, October 9th at 3:55 p.m., in the Assembly Room of the HUB on the subject "Productivity of High Mountain Lakes."

The lecture is open to faculty, students and the public as will be a coffee hour in the Main Lounge of the HUB beginning at 3:30 p.m.

Dr. Olive is a graduate of Ohio State University and served as professor of zoology at Ohio State and Colorado State before assuming his present position in 1959.

VOLUNTARY ROTC

The University Senate this week voted to recommend to the Board of Trustees that Reserve Officers Training Corps programs be placed on a voluntary basis, effective with the 1963 summer term.

The vote favoring the action was 104 to 99.

Pond bust

A bust of Dr. George Gilbert Pond, dean of the School of Natural Sciences from 1895 to 1920, has been placed in the foyer of Osmond Laboratory.

Gift of the classes of alumni who graduated fifty or more years ago, the bust was executed by the young Philadelphia sculptor, Allen Harris.

Dr. Pond, who joined the faculty in 1888, was internationally known for his work in chemistry.

Square dancing

The Centre Squares, a local square dance group organized about three years ago, has become officially affiliated with the University. The group, which comprises University faculty members, students, and townspeople, is dedicated to improvement of square and round dancing and to wholesome and healthful recreation for adults.

All of the present members have gone through a basic training course, which the group sponsored jointly with the State College Adult Recreation Department. A new series of dancing sessions began at the Corl Street School Thursday, October 4, at 8:00 p.m.

faculty BULLETIN

Vol. 50, No. 12 Oct. 5, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

CALENDAR

FRIDAY, OCTOBER 5

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Dr. Jerome J. Wolkin, Biophysical Research Laboratory, Eye and Ear Hospital, University of Pittsburgh Medical School, on "Photoreceptors—the Relation Between Evolution of the Receptor and Its Function at a Molecular Level."

Speech by James E. VanZandt, Republican candidate for U. S. Senate, 8:30 p.m., Schwab Auditorium.

SATURDAY, OCTOBER 6

Artists Series concert by pianist John Browning, 8:30 p.m., Schwab Auditorium.

SUNDAY, OCTOBER 7

University Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Henry P. Van Dusen, president of Union Theological Seminary, on "Truth and Faith."

MONDAY, OCTOBER 8

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Russell Larson, director of Agricultural Extension, on "Mexico."

Engineering Mechanics Seminar, 4 p.m., Room 213 Hammond. Dr. Vernon H. Neubert, associate professor of engineering mechanics, on "Analysis of Shock Response in Three-Dimensional Structures."

TUESDAY, OCTOBER 9

Biological Sciences Lecture, 3:55 p.m., HUB assembly room. Dr. John R. Olive, deputy executive director of the American Institute of Biological Sciences, on "Productivity of High Mountain Lakes."

Science Institute Colloquium, 4 p.m., Room 105 Walker. Dr. James B. Bartoo, head of mathematics department, on "Hypergeometric Distribution and Its Applications."

Speech by Richardson Dilworth, Democratic candidate for governor, 8 p.m., Schwab Auditorium.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." E. A. Myers, on "Arabic Philosophy in a New Dimension."

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. Dr. W. R. Bitler, on "Electronic Structure and Transport Properties of Molten Salts."

WEDNESDAY, OCTOBER 10

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 119 Osmond. Dr. Daryle H. Busch, professor of chemistry, Ohio State University, on "Organic Reactions of Ligands in Metal Complexes."

THURSDAY, OCTOBER 11

International Film showing, 3, 7, and 9 p.m., HUB assembly room. "Miracle of Milan." Tickets 50 cents, Monday at HUB desk.

Speech by William W. Scranton, Republican candidate for governor, 12:30 p.m., Schwab Auditorium.

FRIDAY, OCTOBER 12

University Lecture Series, 8:30 p.m., Schwab Auditorium. John Canaday, art editor of New York Times.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Television Listings

WFBG-TV, Altoona, Channel 10

Second Chair, 9-9:15 a.m.

Oct. 8—Dr. Leonard N. Zimmerman, associate professor of bacteriology; subject to be announced; Oct. 9—Dr. Jeannette Veatch, associate professor of elementary education, on "The Gifted Child"; Oct. 10—Dr. Carl J. Schaefer, associate professor of industrial education, on going to college; Oct. 11—Dr. Arthur O. Lewis, Jr., professor of English, on new writers; Oct. 12—John M. Harrison, assistant professor of journalism, on the press.

Key to the Cupboard, 8:30 a.m.

Oct. 6—George Pappas.

Farm, Home, and Garden, 1 p.m.

Oct. 8—Roger McChesney, on buying beef; Oct. 9—Joseph Cardenuto, on community recreation; Oct. 10—Norman Brown, on hunting safety; Oct. 11—Gordon Walker, on bow hunting; Oct. 12—Gray Mattern, on 4-H junior leaders.

The University Meat Shop, located near the Stadium, is now open every Friday from 1:00 to 4:30 p.m.

PENN STATE COLLECTION
PATTEE LIBRARY

32



faculty BULLETIN

Weekly Publication
the Pennsylvania
State University

Horticulture show

The 49th annual Horticulture Show, traditional attraction during homecoming weekend each fall, will be held Oct. 20 and 21 at the University Ice Rink.

Theme of the show will be "A Golden Walk of Progress," commemorating the Centennial of the Morrill Land Grant Act signing. Major events concerned with the College of Agriculture in the past century will be represented.

A large model of Ag Hill, with buildings and lawn areas to scale, will be one of the highlights. Other features will include a cornucopia to represent the beginning of the department of horticulture, the Ag Extension Service, the greenhouse and florist industry, and research at Penn State.

The Horticulture Club finances the Show each year by selling cider, apples, Indian corn, and gourds.

Statement

A committee of the College of Agriculture has prepared a memorandum to other members of the faculty of the College on the use of chemicals in agriculture. The statement discusses the book published this week titled "Silent Spring," written by Rachel Carson.

Copies of this statement, which is intended to aid the faculty in answering questions directed to them as a result of the book's publication, are available from the office of the Director of the Agricultural Experiment Station, UN 5-54119, Room 108 Armsby.

By University Press

Two Books Published

TWO publications of the Pennsylvania State University Press will be issued next week: "The French New Novel," by Laurent LeSage, and "Joseph Priestley," by Ira V. Brown.

The book by Le Sage, who is professor of Romance languages, is an introduction to the American public of the "nouveau roman" or new novel, which was introduced in the mid-1950's in France. In addition to discussions of the "new" novelists, the book contains excerpts from the novels of 13 French writers, including Alain Robbe Grillet, Samuel Beckett, Robert Pinget, and Marguerite Duras.

Prof. Georges May, professor of French at Yale University, describes Le Sage's effort as "complex literary phenomenon in a coherent and highly intelligible form."

Brown's book is a selection of the writings of Joseph Priestley, scientist, educator, religious scholar, and political liberal. Many of the memoirs, lectures, essays, and letters were selected from the University's collection in Pattee Library.

Priestley, whose home in Northumberland was maintained by the University as an historical site from 1920 to 1955, was a voluminous writer on a variety of subjects. The selections are arranged under headings, Memoirs, Educational Philosophy, Political Theory, Science, and Religion.

Brown, who joined the faculty in 1947, is professor of American history. In addition to contributing to historical journals, he is the author of Lyman Abbott, Christian Evolutionist: A Study in Religious Liberalism.

LeSage was appointed to the faculty Sept. 1, 1949. He emphasizes comparative literature in the 19th and 20th centuries in his teaching and research. He has written extensively on Jean Giraudoux, including the University Press publication, "Jean Giraudoux: His Life and Works," issued in 1959.

Canaday speaks

The noted and controversial art critic of *The New York Times*, John Canaday, will open the 1962-63 Lecture Series this evening (Friday) at 8:30 p. m. in Schwab Auditorium.

Canaday studied painting and the history of art at Yale University and Ecole du Louvre, Paris. He taught at various universities, beginning in 1933, including the University of Virginia and Tulane University, where he was director of Newcomb School of Art. He was named chief of the division of education of the Phila-

(Continued on page six)

Artists series

Tickets for the concert by the New York Pro Musica Friday, Oct. 19, will go on sale at the HUB desk Wednesday, Oct. 17 at 9 a.m. and continue on sale, if any remain, through Thursday.

Second program in the Artists Series, the concert will feature a variety of Renaissance and Baroque music, including the works of Thomas Greaves, William Bird, Thomas Weelkes, Jan Sweelinck, Tielman Susato, Orlando Lassus, John Dowland, Thomas Campion, Thomas Morley, Francis Pilkington, Andrea Gabrieli, and others.

The group of singers and instrumentalists is directed by Noah Greenberg and has received acclaim from all parts of the country as interpreters of European music of the 16th and 17th centuries.

Art exhibit

An exhibition of prints and of mirror-objects by Hans Haacke was opened this week in Room 105 Temporary, sponsored by the department of art.

The German-born Haacke is on a Fulbright travel grant and scholarship from Temple University, for printmaking and sculpture. Some of his works are in private collections in this country and others in the Museum of Modern Art in New York. He has had group shows in Europe and the United States.

Two other shows are planned by the art department for the Fall Term. From Oct. 29 to Nov. 14, there will be an exhibit of graphic design of the Upjohn Company and from Nov. 19 to Dec. 3 some of the paintings of Alfred McAdams will be hung.

Organ, dance

George E. Ceiga, University organist, will present a concert Sunday, Oct. 14, highlighted by the performance of three dances with organ accompaniment, the scores having been written by Ceiga.

Marilyn Richardson, graduate as-

(Continued on page five)

SENATE MINUTES

MEETING OF OCT. 2, 1962

The University Senate met at 3:55 p.m. on Tuesday, October 2, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the July 3, 1962 meeting were approved as printed in the Faculty Bulletin for July 13, 1962. Two hundred six senators signed the roll.

President Walker called on the deans of the several Colleges and the Graduate School to introduce the new senators from the Colleges and the Graduate School. In addition to the newly elected senators the following newly appointed administrative members of the Senate were introduced: W. C. Robinson acting head of the department of economics, in the College of Business Administration; J. J. Gibbons, acting head of the department of physics in the College of Chemistry and Physics; Gordon Godbey, assistant dean for continuing education, Harold Mitzel, assistant dean for research, Herbert A. Smith, head of the department of secondary education, and Dale Harris, acting head of the department of psychology, in the College of Education; P. F. Hallock, acting head of the department of architecture, (M. R. Des Marais to serve as an elected senator while Mr. Hallock is acting head of the department), R. G. Cunningham, head of the department of mechanical engineering, R. K. Vierck, acting head of the department of engineering mechanics while Joseph Marin is on leave from October 1, 1962 to April 1, 1963, in the College of Engineering and Architecture; Alida S. Hotchkiss, assistant dean for research, and Marjorie M. Knoll, head of the department of home management, housing, and home art in the College of Home Economics; and Maurice Cramer, professor of English to serve during the 1962-63 term while R. W. Brewster is on leave in the College of the Liberal Arts.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis fol-

lowing the name of the senator: H. K. Anders (W. M. Smith, Jr.), M. R. Fenske (Dorothy Quiggle), D. H. Ford (J. D. Ashby), C. F. Hager (Roy Buck), H. L. Hartman (C. W. Berry), J. W. Hunt (R. B. Hewes), S. L. Land (W. A. Williams), Ossian MacKenzie (W. L. Ferrara), A. J. G. Maw (E. B. Hale), B. W. McCormick, Jr. (G. L. Sanders), F. A. Miller (Ronald Jones), G. K. Nelson (Orville Keister), W. H. Powers (L. A. Legory), W. R. Spieth (R. S. Rivenes), L. D. Tukey (E. L. Bergman), and R. H. Wherry (Rocco Carzo, Jr.).

A letter was read from R. G. Bernreuter asking the Senate to extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1962-63, and to grant them the privilege of the floor but not the right to vote.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as Appendix "A" and moved adoption of the proposals listed under 1A and 1B. The motion was seconded and passed. Mr. Shelley then presented Item II which listed courses dropped because they had not been taught during the past five years. He stated that two errors appeared in this list and asked that LSc 31 and Math 0 be deleted from the list. Item II was presented for the information of the senators and did not require action. The complete report is on file in the office of the secretary.

UNFINISHED BUSINESS

Ben Euwema, Dean of the College of the Liberal Arts, read the following statement:

If I understand correctly the parliamentary status of the ROTC matter, it is now appropriate for me to move: That the Senate recommend to the President and the Trustees that beginning with the Summer Term of 1963, for students graduating in the College of the Liberal Arts, the ROTC courses be made voluntary rather than compulsory.

The President assented and Mr. Euwema made the motion which was seconded. War-

ren Smith presented an oral review of the report submitted to the members of the Senate by Mr. Euwema under date of September 4, 1962. It presented the case of the College of the Liberal Arts for voluntary ROTC. A copy of this report is on file in the office of the secretary.

J. G. Rayback, Chairman of the Senate Committee on Military Instruction, presented the report contained in Appendix "B" of the Agenda for the July 3, 1962 meeting of the Senate. He also summarized the provisions of the legislation prepared by the Department of Defense for submission to the Congress to establish new two-year ROTC programs for the Army and the Air Force.

J. J. Schanz, Chairman of the Senate Committee on Educational Policy, discussed the report of the Liberal Arts Faculty and stated that the Committee on Educational Policy does not favor this action.

Leon Gorlow spoke in rebuttal to Mr. Rayback and moved an amendment to the motion to grant the privilege of voluntary ROTC to all men on Campus. The motion was seconded and passed. The amended motion reads as follows:

That the Senate recommend to the President and the Trustees that beginning with the Summer Term of 1963, for all students at The Pennsylvania State University, the ROTC courses be made voluntary rather than compulsory.

After further discussion by Mr. Schanz, A. O. Lewis, and W. J. Cain, President Walker called for a written vote on the amended motion. He appointed H. W. Kner and R. C. Maloney to distribute the ballots and H. R. Glenn and C. W. Stoddard to collect and count them. The motion was passed by a vote of 104 to 99. The President read a statement which he had prepared regarding the matter of ROTC at The Pennsylvania State University. He pointed out that this matter will now go to the Board of Trustees for final consideration.

R. T. Oliver, parliamentarian, commented that in a close vote it was in order to ask that the motion be reconsidered either at this meeting or at the next meeting of the Senate.

NEW BUSINESS

L. H. Lattman moved that

The Senate extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1962-63, and to grant them the privilege of the floor but not the right to vote.

The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker informed the Senate concerning his preliminary budget hearing for the next fiscal year. He also reviewed the current status and future plans for the expansion of the physical facilities of the University.

The next regular meeting of the Senate will be on Tuesday, November 6, 1962; the agenda will be distributed on October 23, 1962. The meeting adjourned at 5:40 p.m.

Robert G. Bernreuter
Secretary

ANNUAL REPORT

SENATE RESEARCH POLICY COMMITTEE

The Senate Research Policy Committee held five meetings during the academic year 1961-62. The major recommendations of the Committee included the following:

1. A report prepared by Professor Curry of the Committee dealing with the evaluation of research was recommended for publication in the Faculty Bulletin. This report was subsequently published in the Faculty Bulletin.
2. An informational report was submitted to the Senate describing special service facilities for research provided by various departments and colleges throughout the University. This report should be of considerable help to those conducting experimental research.
3. A subcommittee studied the matter of

improving procurement and services for those engaged in research. One specific suggestion in this report was to inform the purchasing department that something be done to inform staff members of delivery dates for items purchased. The Committee also suggested to Dr. Osborn, Vice President in charge of research, that provision be made for eliminating delays in providing utility services throughout the University.

4. A progress report was prepared by a subcommittee on "Creating an Atmosphere for Research."
5. The Committee discussed and supported a plan relating to exchange of equipment between departments of the University. This plan was proposed by Dr. Osborn's office.

Prepared by:
Joseph Marin, Chairman
Senate Research Policy Committee

Organ—

(Continued from page one)

sistant in theatre arts, and Robert Reifsnider, associate professor of theatre arts, choreographed the dances, the first of which, "Duet," they will perform together. "Stillness and Knowing," will be performed by Susan Houp and Jack Place and "Psalm" by Helen Hungerford, Susan Houp, and Mrs. Richardson.

Ceiga will also play Louis Vierne's "Second Symphony, Opus 20"; Bach's "Dorian Toccatta"; Sowerby's Prelude on "Ad Perennis Vitae Fontem"; and Karg-Elert's Choral Improvisation on "In Dulci Jubilo."

The concert will be given at 4 p.m. in Schwab Auditorium, open to the public without charge.

Theatre named

The University Theatre has been appointed Coordinating Factor for Region 13 of the American National Theatre and Academy.

Principal function of a coordinating factor, explains Flora A. Martel, acting executive director of ANTA, is to act as a specific nominating committee and to act as a forum through which ANTA members discuss problems peculiar to their region.

Region 13 covers the states of Delaware, Maryland, New Jersey, and Pennsylvania, as well as the District of Columbia.

CALENDAR

FRIDAY, OCTOBER 12

University Lecture Series, 8:30 p.m., Schwab Auditorium. John Canaday, New York Times art critic.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Dr. John Jagger, biophysics division, Oak Ridge National Laboratory, on "Photo Protection from Far Ultra-Violet Effects in Cells."

SUNDAY, OCTOBER 14

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Walter Wiest, associate professor of philosophy of religion and contemporary theology, Pittsburgh Theological Seminary, on "The Goads of God."

Reception marking opening of exhibit by George Pappas, associate professor of art and art education, 7-9 p.m., HUB gallery.

Organ and dance recital, 4 p.m., Schwab Auditorium. University organist George E. Ceiga and dancers Robert Reifsnider, Marilyn Richardson, Susan Houp, Jack Place, and Helen Hungerford.

MONDAY, OCTOBER 15

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Alfred Pundt, on "Growing Pains in New Africa."

American Society for Metals, Penn State chapter, meeting, 7:30 p.m., Mineral Industries Auditorium. Robert B. Pond, associate professor of metallurgy, Johns Hopkins University, on "Careers in Metallurgy."

State College Color Slide Club meeting, 7:30 p.m., Room 101 Chambers (new Education). Michael Lynch on "To Shoot or Not to Shoot."

TUESDAY, OCTOBER 16

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. Herbert Matthews, Bell Laboratories, Whippany, N. J., on "Magnetoacoustics Interactions in Solids."

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. Philip Faris, I.B.M. sales representative, on "Process Control Hardware."

Phi Delta Kappa Supper Seminar, 5:15 p.m. (cafeteria-style) HUB dining room "A." Dr. H. A. Smith, head of secondary education department, on "Some Reflections by an Ex-Bureaucrat on the Issue of Federal Control of Education."

AYI Science Institute for Teachers, 4 p.m., Room 105 Walker. Dr. Mary Willard on "Chemical Microscopy—the Significance for High School Teachers."

THURSDAY, OCTOBER 18

International Film Series, 3, 7, and 9 p.m., HUB assembly room. "The Gate of Hell." Tickets on sale at HUB desk Monday.

College of Education faculty meeting, 2:45 p.m., Room 101 Chambers. Panel discussion. Faculty of other colleges invited.

FRIDAY, OCTOBER 19

Artists Series program by New York Pro Musica, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Room 105 White.

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Peter F. Curran, Biophysical laboratory, Harvard Medical School, on "Biophysics of Biological Membranes."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Philip S. Kellbanoff, National Bureau of Standards, on "Boundary Layer Instability and Transition to Turbulence."

TELEVISION LISTINGS

WFBC-TV, Altoona, Channel 10

Second Chair, Monday-Friday, 9 a.m.

Key to the Cupboard, Saturday, 8:30 a.m.

Farm, Home and Garden, Monday-Friday, 1 p.m.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Penna. Retail Florists	\$600	Floriculture research	P. B. Pfahl
Mellon Bank of Pittsburgh	200	Research at Southwestern Field Research Laboratory	L. D. Wissinger
Penna. Dept. of Welfare	1,500	Potter Co. Child Day Care Center	Winona Morgan
National Science Foundation	29,600	Purchase of spectrometer	Thomas Wartik
ibid.	77,500	Mechanics of rock under impact	H. L. Hartman
U. S. Air Force	2,500	Computer services for research in stratospheric objective analysis	R. T. Duquet
National Science Foundation	24,600	Basaltic magma	A. I. Muan
ibid.	18,000	Compact connected semigroups	R. P. Hunter
ibid.	50,000	X-ray amorphous mineral materials	T. F. Bates
ibid.	5,400	Symposium on classical conditioning	W. F. Prokasy
ibid.	50,000	Simplified eclogite system	D. L. Hamilton
U. S. Public Health Service	498	Predoxal fellowship supplement	W. F. Prokasy
Dept. of the Navy	93,000	Support of NROTC program	J. R. Rackley
Bureau of Naval Personnel	65,500	Training of Navy and Marine Corps personnel	J. R. Rackley
Hercules Powder Co.	29,104	Solid Propellants	M. G. Sharnia
U. S. Public Health Service	9,605	Nuclear magnetic resonance	R. A. Bernheim
ibid.	500	Perceptual learning, repression and binocular rivalry	D. N. Jackson
ibid.	34,109	Association cortex in learning	J. M. Warren
Foundry Educational Foundation	1,500	Fellowship in industrial engineering	B. W. Niebel
Atomic Energy Commission	6,000	Metabolism in bovine germ cells	R. J. Flipse
Dept. of the Army	3,000	Production management training program	J. C. McMeekin
ibid.	3,000	Mechanical and production tool design training program	J. C. McMeekin

SENATE MINUTES

MEETING OF OCT. 2, 1962

The University Senate met at 3:55 p.m. on Tuesday, October 2, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the July 3, 1962 meeting were approved as printed in the Faculty Bulletin for July 13, 1962. Two hundred six senators signed the roll.

President Walker called on the deans of the several Colleges and the Graduate School to introduce the new senators from the Colleges and the Graduate School. In addition to the newly elected senators the following newly appointed administrative members of the Senate were introduced: W. C. Robinson acting head of the department of economics, in the College of Business Administration; J. J. Gibbons, acting head of the department of physics in the College of Chemistry and Physics; Gordon Godbey, assistant dean for continuing education, Harold Mitzel, assistant dean for research, Herbert A. Smith, head of the department of secondary education, and Dale Harris, acting head of the department of psychology, in the College of Education; P. F. Hallock, acting head of the department of architecture, (M. R. Des Marais to serve as an elected senator while Mr. Hallock is acting head of the department), R. G. Cunningham, head of the department of mechanical engineering, R. K. Vierck, acting head of the department of engineering mechanics while Joseph Marin is on leave from October 1, 1962 to April 1, 1963, in the College of Engineering and Architecture; Alida S. Hotchkiss, assistant dean for research, and Marjorie M. Knoll, head of the department of home management, housing, and home art in the College of Home Economics; and Maurice Cramer, professor of English to serve during the 1962-63 term while R. W. Brewster is on leave in the College of the Liberal Arts.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis fol-

lowing the name of the senator: H. K. Anders (W. M. Smith, Jr.), M. R. Fenske (Dorothy Quiggle), D. H. Ford (J. D. Ashby), C. F. Hager (Roy Buck), H. L. Hartman (C. W. Berry), J. W. Hunt (R. B. Hewes), S. L. Land (W. A. Williams), Ossian MacKenzie (W. L. Ferrara), A. J. G. Maw (E. B. Hale), B. W. McCormick, Jr. (G. L. Sanders), F. A. Miller (Ronald Jones), G. K. Nelson (Orville Keister), W. H. Powers (L. A. Legory), W. R. Spieth (R. S. Rivenes), L. D. Tukey (E. L. Bergman), and R. H. Wherry (Rocco Carzo, Jr.).

A letter was read from R. G. Bernreuter asking the Senate to extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1962-63, and to grant them the privilege of the floor but not the right to vote.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as Appendix "A" and moved adoption of the proposals listed under IA and IB. The motion was seconded and passed. Mr. Shelley then presented Item II which listed courses dropped because they had not been taught during the past five years. He stated that two errors appeared in this list and asked that LSc 31 and Math 0 be deleted from the list. Item II was presented for the information of the senators and did not require action. The complete report is on file in the office of the secretary.

UNFINISHED BUSINESS

Ben Euwema, Dean of the College of the Liberal Arts, read the following statement:

If I understand correctly the parliamentary status of the ROTC matter, it is now appropriate for me to move: That the Senate recommend to the President and the Trustees that beginning with the Summer Term of 1963, for students graduating in the College of the Liberal Arts, the ROTC courses be made voluntary rather than compulsory.

The President assented and Mr. Euwema made the motion which was seconded. War-

ren Smith presented an oral review of the report submitted to the members of the Senate by Mr. Euwema under date of September 4, 1962. It presented the case of the College of the Liberal Arts for voluntary ROTC. A copy of this report is on file in the office of the secretary.

J. G. Rayback, Chairman of the Senate Committee on Military Instruction, presented the report contained in Appendix "B" of the Agenda for the July 3, 1962 meeting of the Senate. He also summarized the provisions of the legislation prepared by the Department of Defense for submission to the Congress to establish new two-year ROTC programs for the Army and the Air Force.

J. J. Schanz, Chairman of the Senate Committee on Educational Policy, discussed the report of the Liberal Arts Faculty and stated that the Committee on Educational Policy does not favor this action.

Leon Gorlow spoke in rebuttal to Mr. Rayback and moved an amendment to the motion to grant the privilege of voluntary ROTC to all men on Campus. The motion was seconded and passed. The amended motion reads as follows:

That the Senate recommend to the President and the Trustees that beginning with the Summer Term of 1963, for all students at The Pennsylvania State University, the ROTC courses be made voluntary rather than compulsory.

After further discussion by Mr. Schanz, A. O. Lewis, and W. J. Cain, President Walker called for a written vote on the amended motion. He appointed H. W. Knerr and R. C. Maloney to distribute the ballots and H. R. Glenn and C. W. Stoddard to collect and count them. The motion was passed by a vote of 104 to 99. The President read a statement which he had prepared regarding the matter of ROTC at The Pennsylvania State University. He pointed out that this matter will now go to the Board of Trustees for final consideration.

R. T. Oliver, parliamentarian, commented that in a close vote it was in order to ask that the motion be reconsidered either at this meeting or at the next meeting of the Senate.

NEW BUSINESS

L. H. Latman moved that

The Senate extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1962-63, and to grant them the privilege of the floor but not the right to vote.

The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker informed the Senate concerning his preliminary budget hearing for the next fiscal year. He also reviewed the current status and future plans for the expansion of the physical facilities of the University.

The next regular meeting of the Senate will be on Tuesday, November 6, 1962; the agenda will be distributed on October 23, 1962. The meeting adjourned at 5:40 p.m.

Robert G. Bernreuter
Secretary

ANNUAL REPORT

SENATE RESEARCH POLICY COMMITTEE

The Senate Research Policy Committee held five meetings during the academic year 1961-62. The major recommendations of the Committee included the following:

1. A report prepared by Professor Curry of the Committee dealing with the evaluation of research was recommended for publication in the Faculty Bulletin. This report was subsequently published in the Faculty Bulletin.
2. An informational report was submitted to the Senate describing special service facilities for research provided by various departments and colleges throughout the University. This report should be of considerable help to those conducting experimental research.
3. A subcommittee studied the matter of

improving procurement and services for those engaged in research. One specific suggestion in this report was to inform the purchasing department that something be done to inform staff members of delivery dates for items purchased. The Committee also suggested to Dr. Osborn, Vice President in charge of research, that provision be made for eliminating delays in providing utility services throughout the University.

4. A progress report was prepared by a subcommittee on "Creating an Atmosphere for Research."
5. The Committee discussed and supported a plan relating to exchange of equipment between departments of the University. This plan was proposed by Dr. Osborn's office.

Prepared by:
Joseph Marin, Chairman
Senate Research Policy Committee

Radio astronomy added

DR. John P. Hagen, associate director of long-range planning of the National Aeronautics and Space Administration, has joined the faculty as professor of radio astronomy to direct a new program in the study of the sun and other stars through radio waves.



Dr. Hagen

Considered one of the world's leading solar astronomers, Dr. Hagen was also the director of the first major U. S. effort in space — Project Vanguard Satellite Program conducted by the Naval Research Laboratory from 1955 to 1958.

A 30-foot radio telescope has been constructed on the University farms north of the campus to monitor the sun from horizon to horizon on frequencies of 1000 mcs and 2800 mcs. Control equipment will cause the telescope to track the sun automatically at all times.

In its initial stages, the radio astronomy program will concentrate on study of the sun's radio waves to attempt to discover a relationship between disturbances in the earth's ionosphere and solar phenomena. Such a relationship may lead, at some time in the future, to a method of predicting changes in the ionosphere as a result of solar activity.

A later program will be the attempt to measure the polarization of radio waves from the sun, to provide information on the magnetic field of sunspots.

The Ionospheric Research Laboratory at Penn State began as the "Watson project," in contract with the Air Force, in 1946 under the direction of Dr. Arthur H. Waynick, now head of the electrical engineering department. The studies have contributed much to the basic knowledge of the ionosphere and of space and has placed the University in a leading position in the world in such research.

President Walker has said that "the radio astronomy program will enable Penn State to strengthen its position as one of the world's leading centers for space studies."

Dr. Hagen is a graduate of Boston University and received a master's degree from Wesleyan University. Both degrees were in the fields of physics and astronomy. He was granted a doctor of philosophy degree in

astronomy and mathematics by Georgetown University, which he served as lecturer for many years.

After serving as research associate at Wesleyan University from 1931-35, Dr. Hagen was a member of the Naval Research Laboratory staff until 1958, during which time he was in charge of the atmosphere and astrophysics division, was radio astronomer, and a member of various eclipse expeditions. From 1958-60 he was assistant director of space flight development of N.A.S.A. Since 1960 he has held the position of associate director for long-range planning at N.A.S.A.

Dr. Hagen has received the Presidential Certificate of Merit, and the Distinguished Service Medal. He is a fellow in the Institute of Radio Engineers and a member of many other scientific organizations.

Dr. George M. Lott retired Oct. 1 as psychiatrist with the Health Center after 15 years. He plans to conduct private practice and provide consulting service for various institutions and groups. He is the author of the book, "The Story of Human Emotions," published in 1958 by the Philosophical Library.

Dr. A. W. Hussman, professor of engineering research, has resigned to accept the chair for internal combustion engines and automotive engineering at the Engineering University in Munich, Germany. He came to the University in 1951.

Dr. Eugene E. White, associate professor of speech, has been named Liberal Arts Research Scholar for the Fall Term. He plans to use his released time to continue his study of the rhetoric of revivalism.

Recent appointments include the following:

- Richard W. Adler, instructor in electrical engineering.
- Harold R. Bock, assistant Lycoming County agent.
- Dr. Rupert Brook, staff psychologist, Division of Counseling.
- Norman D. Buchanan, instructor in engineering graphics.
- Thomas W. Calvert, assistant Somers County agent.
- Robert J. Cronauer, instructor in art education.
- Dr. Edgar F. Cruft, research associate in geochemistry.

- Dr. Augusta M. Espantoso, assistant professor of Romance languages.
- Dr. Edward R. Fagan, associate professor of secondary education.
- Rebecca J. Gifford, instructor in special education.
- Paul C. Harrison, Jr., instructor in educational services.
- Ryozo Hayami, visiting research associate in ceramic technology.
- Helen Hungerford, instructor in physical education.
- J. Thomas Kidd, field secretary, Alumni Association.
- Dr. George A. Knader, associate professor of geography.
- William W. Kuhre, instructor in English.
- Dr. David A. Kurtz, research associate, materials research laboratory, geophysics and geochemistry.
- Dr. James S. Lindsey, associate professor of wildlife management.
- Robert Z. Lott, instructor in speech.
- Donald D. Manson, instructor in speech.
- Dr. Robert L. Masson, instructor in educational rehabilitation.
- H. William McCurdy, research assistant nuclear engineering.
- Joseph F. Metz, Jr., acting resident director, Mont Alto.
- Dr. Henry L. Minton, assistant professor of psychology.
- Desmond F. Moore, research assistant in mechanical engineering.
- Russell A. Reed, instructor in chemistry, Wyoming.
- Charles G. Replogle, assistant Indiana county agent.
- Donald A. Ross, research assistant in nuclear engineering.
- Gary C. Roth, instructor in physics, Wyoming.
- Gordon M. Shedd, instructor in English.
- Joseph M. Smith, Jr., instructor in mechanical engineering.
- Perry R. Smith, assistant director of science institute.
- Joseph Stach, Jr., instructor in electrical engineering.
- Dr. George J. Stagakis, assistant professor of history.
- Denton A. Steffy, instructor in general engineering.
- Donald P. Stegall, assistant professor of business administration.
- John H. Ursell, assistant professor of mathematics.
- Twila J. Uznack, instructor in educational services.
- Dr. Jack Yahia, assistant professor of physics.

LEAVES OF ABSENCE

- WILLIAM A. DAMERST, assistant professor of English, Sept. 1 to Dec. 31, to work on a textbook on business writing.
- Dr. JOHN C. CRIFITTS, professor of petrology and head of the mineralogy department, Jan. 1 to June 30, 1963, to study systems analysis and information theory at the University of California at Berkeley.
- PATRICIA A. KELLY, assistant State 4-H Club leader, Sept. 1 to Aug. 31, 1963, to work toward her master's degree at Springfield College, Massachusetts.
- Dr. S. LEWIS LAND, head of the department of industrial education, Oct. 1 to Nov. 30, 1963, to serve as a consultant to the Agency for International Development.
- JOSUPE A. McCURDY, associate professor of agricultural engineering extension, Sept. 1 to Aug. 31, 1963, to do graduate work at Michigan State University.

Faculty meeting

The College of Education faculty meeting of Thursday, Oct. 18, will be open to members of the entire University faculty. It will be held at 2:45 p.m. in Room 101 Chambers Building.

A panel discussion on the subject, "The Spring Report of the A.A.U.P. on Faculty Participation in College and University Government," will be conducted. Panelists will be Dr. J. R. Rackley, vice president for resident instruction; Dr. Abram W. VanderMeer, dean of the College of Education; Herman I. Orentlicher, associate secretary and counsel of the national A.A.U.P.; Dr. K. R. Beittel, professor of art education; and Dr. Jerome E. Singer, assistant professor of psychology, moderator.

Women's program

The program of activities for faculty women at White Building will begin Oct. 16. Information about the programs may be obtained that day at 2:30 p.m. in the foyer of the building.

The program includes activity in bowling, badminton, dance and exercise, and swimming. Badminton and bowling are offered every Tuesday and Thursday from 3 to 4 p.m.; swimming Tuesday and Thursday from 3 to 3:45 p.m.; and dance and exercise Thursday at 7:30 p.m.

For badminton all equipment is furnished; participants should wear sneakers. Swimming instruction is offered on all skill levels at the same time as recreational swimming.

Eligible are faculty women and wives of graduate students. A medical clearance should be obtained before participation.

Education talk

Dr. Herbert A. Smith, head of the department of secondary education, will speak before the Phi Delta Kappa Supper Seminar Tuesday, Oct. 16, at 6 p.m. in HUB dining room "A."

His topic will be "Some Reflections by an Ex-Bureaucrat on the Issue of Federal Control of Education." Dr. Smith, who came here from the University of Kansas where he was director of the Bureau of Educational Research and Service, was chief of the Science Mathematics and Modern Foreign Languages section in the National Defense Education Act program in Washington, D.C., during the 1959-60 year.

Dinner is cafeteria-style at 5:15 p.m.

University theatre set

Two University Theatre productions in Center Stage and two in Schwab Auditorium have been scheduled for the 1962-63 season, which will conclude with a production in the new Pavilion Theatre in May, 1963.

In a departure from previous practice, Center Stage productions will be given for nine nights each, starting Thursday of one week and concluding Saturday of the following week.

Kelly Yeaton, associate professor of theatre arts, will direct "The Egg," a satiric comedy by Felicien Marceau, in the opening play at Center Stage, Oct. 25-Nov. 3, excluding Sunday, Oct. 28.

"The Rivals," an 18th-century comedy by Richard Brinsley Sheridan, will be featured in Schwab Auditorium Nov. 15, 16, and 17. Frank Neusbaum, professor of theatre arts recently returned from Brazil where he was on leave for two years to set up educational motion picture production studio, is the director. Just 20 years ago, July 10-11, 1912, Neusbaum directed the same play in Schwab Auditorium.

Robert Reifsnider, associate professor of theatre arts, will direct production of a musical fantasy by Tom Jones and Harvey Schmidt, "The

Fantasticks," for Center Stage, Feb. 7-16.

"The Visit," a drama by Friedrich Duerrenmatt, directed by Warren Smith, associate professor of theatre arts, will be presented in Schwab Auditorium Feb. 28 and March 1 and 2.

Single ticket prices for the two productions at Center Stage and the two in Schwab Auditorium are \$1 for weekdays and \$1.25 for Friday and Saturday.

Season tickets, priced at \$4.50 for five productions, will go on sale Oct. 17. They may be obtained by calling UN 5-6309 or calling at Room 202 Schwab.

Season tickets permit the holder to see five shows or to see one show with five in the party or in any combination totalling five shows and seats.

NSF fellowships

The Graduate School Office requests advice of outstanding seniors and graduate students to call to the students' attention that application materials should be secured at once for the National Science Foundation Cooperative Graduate Fellowships for 1963-64. Complete application materials must be in the office of the dean of the graduate school of the student's choice by November 1, 1962.

The Foundation plans to award approximately 3000 fellowships in science for 1963-64, apportioned between its "Cooperative" and regular "Graduate" fellowship programs in such a manner that individuals of comparable ability receive awards in each program. A recipient of a Cooperative Fellowship receives a stipend of \$2100 for 12 months, a grant-in-aid to cover all tuition, and if his department chooses to and has available funds, is permitted to receive an additional stipend at a rate not to exceed \$1000 for 12 months.

In accord with the law creating these fellowships, recipients are selected solely on the basis of ability, as indicated by academic records, recommendations, and Graduate Record Examination scores. A special Graduate School committee selects those to be recommended to NSF. This year we may recommend in rank order, 57 applicants. In the four years of the program Penn State has been awarded 72 of these fellowships.

NSF fellowships are available in the biological, engineering, mathematical, and physical sciences, anthropology, economics (excluding business administration), geography, history and philosophy of science, psychology (excluding clinical), and sociology (excluding social work). Also included are interdisciplinary fields such as, biophysics, geochemistry, and meteorology.

In order to save work for both students and faculty, students coming to the Graduate School Office, 101 Willard, for application materials are asked to bring a written statement from their department head to the effect that the department will support the application. (This is not a letter of recommendation, but a brief note to indicate departmental willingness to recommend the student.)

The NSF older, regular Graduate Fellowship Program, in which the student applies directly to NSF and picks his own graduate school, may be better for the married man with dependents, since it has dependency allowances for wife and children. Announcements will be out in October and applications will be due in Washington by January 1, 1963. As mentioned in paragraph two, these fellowships apparently will not be harder to get.

NSF will again offer summer fellowships to students who have been teaching assistants for at least one academic year (3 Penn State terms), teaching or assisting in teaching duties at least 8 hours per week. An instructor who is a graduate student might also be eligible. An applicant may not apply for more than one NSF fellowship for the same period of tenure. However, if he has been, or will have been by June, a teaching assistant for 3 terms, he could apply for a Summer Fellowship for Former Teaching Assistants for the Summer of 1963 and also apply for one of the academic year fellowships the latter not to start before September 1, 1963 and to end August 31, 1964. This year we may recommend as many Summer Fellowship applicants as our local committee considers qualified.

Application materials for the Cooperative and the Summer fellowships are available at the Graduate School Office, 101 Willard. Students should get busy at once, as there are several forms to complete.

Pappas exhibit

An exhibit of the recent paintings and drawings of George Pappas, associate professor of art and art education, will be hung in the HUB gallery from Oct. 12 to Nov. 7.

A reception marking the opening of the exhibit will be held Sunday, Oct. 14, from 7 to 9 p.m. in the HUB.

The paintings being exhibited deal with the contrasts between interior and exterior environments in which the living, painted surface is suspended in the environment best satisfying its particular needs.

Television

WQED, educational television station in Pittsburgh, conducts a weekly interview program each Monday. Members of college and university faculties, administrative staffs, or trustees are welcomed. Faculty members planning to visit Pittsburgh and who would have time to appear on the program are invited to call the Department of Public Information, UN 5-7517, which will in turn get in touch with the appropriate people at WQED.

Canaday—

(Continued from page one)
delphia Museum of Art in 1953 and in September, 1959, became *New York Times* art critic.

He is author of "The Metropolitan Seminars in Art"; "Mainstreams of Modern Art"; and "Embattled Critic." Under the name of Matthew Head, he has also written seven mystery novels.

Tickets are available at the HUB desk.

ITEMS OF INTEREST

Articles and Papers

At the meetings of the American Psychological Association and the Psychonomic Society at St. Louis, papers by the following:

CORSO, J. F., psychology, "Presbycusis in Men and Women from 18 to 65."

JACKSON, D. N., Jr., psychology, "The Role of Memory and Color in Group and Individual Embedded Figures Measures of Field-Independence."

WARREN, J. M., psychology, "Overtraining times Species Times Task Interactions."

SCHIPPER, LOWELL, psychology, "Probability Learning and Decision Making."

At the annual meeting of the American Society for Horticultural Science, papers by the following horticulture department members:

LANPHEAR, F. O., and MEAHL, R. P., "Substances which Stimulate Root Initiation in Mung Beans" and "An Investigation of the Seasonal Fluctuation in Root Initiation of *Juniperus Horizontalis Plumosa*."

—with NUSS, J. R., "Rooting of Several Junipers as Influenced by Time of Taking and Root Promoting Substances."

ODLAND, M. L., and GROFF, D. W., "Linkage of Vine Type and Geotropic Response with Sex Farms in Cucumber."

BERGMAN, E. L., and BOYLE, J. S., plant pathology, "Effect of Tobacco Mosaic Virus on Mineral Content of Greenhouse Tomato Leaves."

SMITH, C. B., "Yield, Quality and Leaf Composition of Sweet Corn as Influenced by Differential Fertilizer Treatments with Potassium Supplied as Chloride and Sulfate."

At the Physical Society Conference on the Ionosphere in London, England, July 2-6, papers by the following members of the electrical engineering staff:

ROSS, W. J., and BLUMLE, L. J., "The Distribution of Ionization about the Magnetic Equator."

—with DEBARBER, J. P. and CHISHOLM, G. E., "The Nature of the Irregularities in Ionization Density Causing Scintillation in Satellite Radio Signals."

SCHMIERLING, E. R., "True Height of Ionization in the Upper Atmosphere."

BOWHILL, S. A., "Ion Temperatures from the Electron Distribution Above the F-2 Layer Maximum."

KOUNTZ, R. R. and McDONNELL, A. J., sanitary engineering, "Statistical Correlations of Stream Pollution Factors," at the national meeting of the American Chemical Society Division of Water and Waste Chemistry.

MALLETTE, M. F., ag biochem, with Mayberry, J. M., "Inhibition of the Trypsinase Oxidation of One Substrate by Another," in the July issue of the *Journal of General Physiology*.

PANOFESKY, H. A., meteorology, and PRESS, HARRY, N.A.S.A., "Meteorological and Aeronautical Aspects of Atmospheric Turbulence," in *Progress in Aeronautical Sciences*, Pergamon Press.

—"The Budget of Turbulent Energy in the Lowest 100 Meters," in the *Journal of Geophysical Research*, July issue.

READ, H. J., metallurgy, with NYSTROM, W. A., "The Mechanical Properties of Electrodeposited Brass," at the fall meeting of the Electrochemical Society at Boston, Mass.

REMICK, F. J., nuclear engineering, "Nuclear Energy—Why and How?" at the annual meeting of the North Atlantic Section, American Society of Agricultural Engineers at Morgantown, W. Va.

RUNG, T. J. and MINSHALL, E. E., continuing education, "Survey of Training Needs," in the Summer issue of *Pennsylvania Nurse*.

SCHIEIN, M. W., animal behavior, a paper on research on sex preference of experimentally controlled turkeys and chickens at the meeting of the American Institute of Biological Sciences at Oregon State University.

faculty BULLETIN

Vol. 50, No. 13 Oct. 12, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MISS MILDRED AILMAN
PATTEE LIBRARY



faculty **BULLETIN**

**A Weekly Publication
The Pennsylvania
State University**

Homecoming

Saturday will be Homecoming Day, highlights of which will include the football game against Syracuse at 1:30 p.m.; luncheon for returning alumni at 11:30 a.m. in the HUB, with the crowning of the Homecoming Queen; and traditional lawn displays at fraternities.

An exhibit noting the 75 years of football at Penn State has been arranged in the foyer of Pattee Library by Mrs. H. R. Riley.

The sports program also includes a freshman football game with Syracuse at 11 a.m.; cross country meet with Michigan State at 1 p.m.; and freshman soccer with Ogontz Campus at 1:30 p.m.

Exhibit

An exhibit titled "Life Begins" has been arranged on the first floor, Home Economics South, as part of the instructional program of the department of child development and family relationships. Life-size models of a child at birth and others at various stages prior to birth are included in the display.

Library week

William S. Pierce, librarian for Commonwealth Campuses and Continuing Education, has been appointed executive director for Pennsylvania of National Library Week, which will be observed April 21-27. Theme of the observance will be "Reading, the Fifth Freedom . . . Enjoy It!"

Harper's editor speaks

John Fischer, editor of Harper's Magazine, will speak on "What Students Could Do to Improve the Quality of University Education," in the Fall Term Graduate School Lecture Series.

The lecture is scheduled for 8 p.m. Thursday, Oct. 25, in Room 121 Sparks.

Oklahoma-born, Fischer began a journalistic career as a high school student, working for the Amarillo Globe-News and papers in Carlsbad, N. M., Norman, Oklahoma, and Oklahoma City.

After graduation from the University of Oklahoma, he studied economics at Oxford University, England, on a Rhodes scholarship, and during a vacation worked for the United Press in England and Germany. From 1935 to 1937 he worked in Washington covering the Senate, Supreme Court, and various government departments for the A.P.; he became head of the A.P. Senate staff in 1937.

Later in 1937 he began seven years of government service, with the Department of Agriculture, the Board of Economic Warfare, the Foreign Economic Administration, and as economic intelligence officer on the staff of General Joseph W. Stilwell, commander of the CBI theater.

Fischer joined the Harper and Brothers staff in 1944. From 1947 to 1953 he was chief editor of the General Book Department. He is now vice president, secretary, and director of the firm and also director of Harper-Atlantic Sales Corp.

Author of "Why They Behave Like Russians," which he published after serving with the United Nations Relief and Rehabilitation Administration in the Ukraine, Fischer has also written "Master Plan: U.S.A." and articles for a number of magazines.

Fischer has lectured at many universities in this country and Europe, and has served as consultant with a number of educational organizations. He is a trustee of The Salzburg Seminar in American Studies and of Solebury School, New Hope, Pa.

Men's recreation

Faculty and staff men are invited to join with others in organized badminton play each Tuesday and Thursday from 1 to 3 p.m. in Recreation Building. The activity period is provided by the College of Physical Education and Athletics as a means of encouraging physical fitness programs among faculty and staff members.

Center Stage

"The Egg," a comedy by Felicien Marceau produced on Broadway this year, opened last evening (Thursday) and will continue at Center Stage for nine performances ending Nov. 3.

Unlike the practice in previous years, performances at Center Stage will run on consecutive nights (except Sunday) instead of successive weekends.

Kelly Yeaton, associate professor of theatre arts, is director of the show, the plot of which revolves around "the system," or code of behavior by which everyone lives.

Reservations and ticket sales may be made in Schwab Auditorium lobby from 11 a.m. to 1 p.m. and from 4 to 6 p.m. Ticket sales on performance nights are made at Center Stage from 7 to 8 p.m. Reservations, which can be made by calling UN 5-6309, are accepted during all box office hours.

Danforth grants

Applicants for Danforth Graduate Fellowships should get in touch with Dr. M. N. McGeary, assistant to the president, UN 5-6577, no later than Oct. 25.

The Danforth fellowship program was established in 1951 to assist about 500 eligible male students of outstanding intellectual promise and personality, integrity, of high potential for effective college teaching, and having a genuine interest in religion. One-year awards of \$1,500 for single students, \$2,000 for married students, and \$500 for each dependent child are made for one year, renewable for four academic years of graduate study.

From two to five candidates may be nominated by each college or university.

Journal

Dr. Ben Euwema, dean of the College of the Liberal Arts, has been named managing editor of "The Journal of General Education," succeeding Dr. Howard A. Cutler. Penn State has published the Journal since 1959; it was established in 1946.

Artists Series Program

THE New York Pro Musica program at 8:30 p.m. this evening (Friday) will include English madrigals, Flemish dances, Latin sacred music, Elizabethan songs, Venetian instrumental music, and Anglican anthems in the medieval Renaissance and Baroque mode, sung and played as in the 16th and 17th centuries.

Noah Greenberg is musical director of the ten men and women singers and instrumentalists. The instruments include the recorder, krumphorn, alto sackbut, flute, schryari, bass viol, harpsichord, portative organ, and the regal.

The English madrigal group will include works by Thomas Greaves, William Byrd, and Thomas Weelkes. Flemish dances, by Tielman Susato, will be played by the instrumentalists. Paul Maynard will play on the harpsichord Jan Sweelinck's variations on the song "Onder een linde groen."

Latin sacred music by Orlando Lassus will be followed by Elizabethan songs by a number of composers and by Venetian instrumental music. The program concludes with Anglican anthems by Martin Peerson and Thomas Weelkes.

The next event on the Artists Series calendar is the Phoenix Theatre Production of Thornton Wilder's "The Matchmaker," in performances at 3:30 and 8:30 p.m. in Schwab Auditorium.

Tickets for the play will be on sale to the public Oct. 24-26, 9 a.m. to 5 p.m. at the HUB desk.

"The Matchmaker" is a comedy with a locale in Yonkers and New York City. It stars Sylvia Sidney and features the Phoenix Theatre's Acting Company, among them Ralph Dunn, Sada Thompson, Gwyda Don Howe, and others.

Miss Sidney, who plays the title role, made her professional debut at the age of 15 and three months later appeared on Broadway as a replacement in "The Squall." After other successes, she became a star in Hollywood.

The show was a hit on Broadway, playing to capacity houses for more than a year. It is directed by Harold Prince who produced such hits as "Fiorello" and "West Side Story."

The Phoenix Theatre in New York was founded in 1953 by T. Edward Hambleton and Norris Houghton to make available a theatre where established actors, directors and other talents could work and where plays of unusual interest could be offered for limited runs.

U.C.A. drive

Materials were distributed to solicitors this week by the University Christian Association to aid them in their annual faculty and staff fund-raising campaign.

Budget this year for the U.C.A., which is a voluntary religious agency representing 10 denominations, is \$45,598. It is supported entirely by contributions from individuals and church agencies.

Interested persons will be contacted either by mail or in person by fund-raising representatives in each department or division. First contact will be by mail and a personal approach will be made after Oct. 22 for those who have not responded to the mail approach.

Speeches

The book, "Vision and Purpose in Higher Education," edited by Raymond F. Howes and published this week by the American Council on Education, contains speeches by President Eric A. Walker and former president Dr. Milton S. Eisenhower. "Quality and Quantity" is the title of the talk by Dr. Walker and it was given Dec. 19, 1958, at Williamsport.

Dr. Eisenhower is represented by abstracts from an address, "Education for International Understanding" delivered April 29, 1954, at the Charter Day Convocation at Lincoln University.

Migrants

The department of child development and family relationships aided some 300 children of migrant workers during the past summer, in cooperation with the Pennsylvania Department of Welfare. Eleven day centers throughout the State were operated to provide the children with recreational activities, instruction, and meals.

Centers were operated in Tunkhannock, Aspers, Biglerville, Cochranville, Bloomsburg, Selinsgrove, Mendota, Moreland, Newton, Weaversville, and Chambersburg. Assistance was also given to the Menno-nite-operated center at Ulysses, in Potter County.

PERSONNEL MATTERS

Dr. H. Mauzee Davis, professor of chemical metallurgy, will retire Oct. 31 and accept a position as director of metallurgy and ceramics research at the U. S. Army Research Office, Durham, N. C. He joined the faculty in 1936 as research assistant in ceramics and in 1942 joined the faculty of the department of metallurgy. In 1951 he became professor of chemical metallurgy.

Dr. Davis was one of those honored for "excellence in teaching" in 1959 by the University. He has also done outstanding research on gases in metals.

Hobson M. Zerbe, associate professor of mathematics at Hazleton Campus has retired. He was appointed to the faculty in 1945 as instructor. A graduate of Albright College, he received the master of science degree in education at Penn State.

Among the recent appointments to the faculty are:

Dr. Russell A. Hyre, as professor of plant pathology, coming from the U. S. Dept. of Agriculture, stationed at the University of Delaware, where he was regional plant pathologist.

Dr. James S. Lindzey, as associate professor of Wildlife Management, and leader of the Pennsylvania Cooperative Wildlife Research Unit. He comes from the U. S. Bureau of Sport Fisheries and Wildlife at Washington, D. C. He succeeds Dr. Ward M. Sharp, who has accepted a position as leader of the Penna. Cooperative Wildlife Research Unit at Warren, Pa.

Helen M. Albert, as instructor in hotel and institution administration. She was director of the hospital division of Midwest Food Service, Sterling, Ill.

Mrs. Ruth C. Lauler, as assistant to the dean of student affairs and dean of women at Ogontz. **Harry Verdier** as assistant to the dean of student affairs and dean of men at Ogontz.

John S. Barth, associate professor of English, will be on leave during the Winter and Spring Terms working on a book. He will be in Spain but will also travel in Europe during the leave.

Samuel H. Jopling and **Walter L. McMahon**, of the military science department, have been promoted to the rank of major by the U. S. Army.

ITEMS OF INTEREST

The Arts

SHOBAREN, B. R., art, one-man exhibition of paintings and prints in the University Gallery, University of Minnesota.

Articles and Papers

ACKERMAN, C. L., MILLER, C. S., and BROWN, J. L., Jr., Ordnance Research Laboratory, "Theoretical Basis and Practical Implications of Band-Pass Sampling," at the National Electronics Conference in Chicago.

ALMIQUIST, J. O., dairy science, "Diluents for Bovine Semen, Part XI," in the *Journal of Dairy Science*, 45 (7): 911-916.

BERGMAN, E. L. and BOYLE, J. S., plant pathology, "Effects of Tobacco Mosaic Virus on the Mineral Content of Tomato Leaves," in *Phytopathology* 52:9, 956-957.

BUBASH, G. R., veterinary science, "Escherichia Coli Serotypes Isolated from Salpingitis and Chronic Respiratory Disease in Poultry," in *Avian Diseases*, Vol. 6, No. 3, August.

BRITTON, JEAN O. and BRITTON, JOSEPH H., "Expectations for Older Workers in a Rural Community: Solving Personal Problems," in the September issue of *Geriatrics*.

KLAUS, E. E., and FENSKE, M. R., chemical engineering, with ANGELOXI, F. M., "Development and Application of the PRL Single Pass Capillary Viscometer," in ASTM Special Technical Publication No. 299, "Symposium on Non-newtonian Viscometry."

FERRARO, A. Y., electrical engineering, "Studies of the Echo Polarization from High Gradient Profiles," at the AGARD Low Frequency meeting sponsored by NATO in Munich, Germany.

FLIPSE, R. J., dairy science, "Metabolism of Bovine Semen, Part XI," in *Journal of Dairy Science*, 45 (7), 917-920.

LATIMAN, L. H., "Geologic Interpretation of Airborne Infrared Imagery," at the Second Symposium on Remote Sensing of the Environment sponsored by the Office of Naval Research and the U. S. Air Force.

LOTT, G. M., retired psychiatrist, "The Prevention of College Failure," in the July issue of the *American Journal of Orthopsychiatry*.

MCDONALD, E. T., speech, "Articulation," at the annual convention of the Penna. Speech Assn.

OLIVER, R. T., speech, "One Hundred Years of Teaching Speech: an Interpretation," in *The Speech Teacher*, September issue.

PANOFSKY, HANS, meteorology, "Wind Above the Ground and Fog Forecasting" at the Fourth Conference of Applied Meteorology of the American Meteorology Society.

ROSS, W. J., electrical engineering, "The Diurnal Variation of Equatorial Election Content," and "Sunrise Effects in F Region Near the Magnetic Equator," at the International Conference on Equatorial Aeronomy in Huaycabula, Peru.

SCHRADER, W. J., accounting, "An Inductive Approach to Accounting Theory" in the October issue of *Accounting Review*.

SCHAFER, C. J., industrial education, "Do You Have Leadership Potential," in the September issue of *School Shop*.

SEAFORD, R. E., Student Affairs Research, "New Techniques in Analyzing Parent-Child Test Scores for Evidence of Hereditary Components" at the American Psychological Association meeting, St. Louis.

ISDALE, W. J., education, "Productive Thinking in Retarded Children" in the *Journal of Exceptional Children*, September issue.

WERNHAM, C. C., THOMAS, W. I. and GORSLINE, G. W., agronomy, "Yield Reductions and Stalk Rot Severity in Corn Hybrids under Severe *Helminthosporium* Leaf Blight Conditions in Pennsylvania," in the September 15 issue of *Plant Disease Reporter*.

WANG, MARIAN M., FISHER, KATHERINE H., and DODDS, MARY L., nutrition, "Comparative Metabolic Response to Erythorbic Acid and Ascorbic Acid by the Human," in the August issue of *The Journal of Nutrition*.

WHITMORE, G. F., biophysics, with M. ELKIND, "Radiobiology of Mammalian Cells," in a monograph early next year.

WILLOWER, D. J., education, "Education Students' Perceptions of School Administrators," in the autumn issue of *The School Review*.

ZERKO, H. P., speech, "Trends in Oral Communication Training in Business and Industry," in the *Journal of Communication*.

Lectures and Talks

COLOGNE, ROSE M., home-community relationships, "The Women of Afghanistan," Oct. 18 before the Federation of Womens Clubs in Greensburg.

HARNETT, A. L., physical education, "Controversial Issues in Health Education," before the Midwestern Convention District of the Penna. State Education Assn., at New Castle, Pa.

JORDAN, JOSEPH, chemistry, on thermochemical titrations, at the Second International Technical Congress of Laboratory, Measurement and Automation Techniques in Chemistry, at Basle, Switzerland, Oct. 15-20.

MAGNER, I. F., Russian, "Russian—A Language in Orbit" at Susquehanna University, Oct. 10.

MASTALERZ, J. W., floriculture, review of research on rose production, at the 26th Annual Convention of Roses, Inc., in New York.

MCDONALD, E. T., speech, "Counseling Parents of Handicapped Children," at the University of Florida.

MUEHLER, E. W., physics, in Japan, lectures on "Field Ion Microscopy," Nagoya University; "Atomic Structure around Point Defects and Dislocations," at Osaka University; "Direct Observation of the Atomic Structure of Metal Crystals," University of Tokyo.

— "Structure of Metal Surfaces," at A.S.T.M. Symposium, Los Angeles.

— "Field Ion Microscopy," University of California.

— "Behavior of Matter in Extremely High Electric Fields," University of California.

HALE, F. B., animal behavior, appointed vice-chairman of the Committee on Animal Behavior of the Ecological Society of America.

KLAUS, E. E., chemical engineering, elected to the Research Committee on Lubrication, American Society of Mechanical Engineers.

LEWINER, OSWALD, English, appointed one of 50 poets to take part in National Poetry Festival, Oct. 22-24, at Library of Congress.

MACKENZIE, OSSIAN, Business Administration, appointed to membership on the National Export Expansion Council.

NEUBERGER, HANS, meteorology, reappointed to the executive committee of the Division of Earth Sciences, National Research Council Academy of Sciences.

PYLE, H. G., Continuing Education, appointed to the new State Apprenticeship and Training Council of Pennsylvania.

RAVER, LEONARD, music, appointed reviewer of organ music for the publication, *The American Organist*.

SCHUG, C. H., speech, elected vice-president, National Forensic Society of Delta Sigma Rho.

SHUMAN, E. C., engineering research, appointed A.S.M.E. representative on the A.S.T.M. C-16 Committee.

RICHARDS, M. D., management, "Decision Making and Information in Organization," before the Schuylkill Valley Data Processing Management Association chapter at Reading, Pa.

RODGERS, A. L., geography, "Resources and Soviet Economic Development," at the Air-War College, Maxwell Air Force Base.

THOMPSON, A. T., Engineering, at Wyomissing Center, convocation.

WEINTRAUB, STANLEY, English, "F. R. Leavis and C. P. Snow: the Crux of the Two Cultures Controversy" before the Sixth Annual Conference of the Pennsylvania Council of Teachers of English at Erie, Pa.

— "Why We Go to the Theatre," at the Wyomissing Institute of Fine Arts, Reading, Pa.

— "Pvt. Shaw and Public Shaw," at the Wyomissing Center.

WILLIAMSON, M. A., Engineering, "Certification of Engineering Technicians," at the 17th annual Instrument-Automation Conference and Exhibit in New York.

Elected and Appointed

AMBROSIO, E. E., mechanical engineering, appointed to another five-year term as member of the American Society of Mechanical Engineers Research Committee on Fluid Meters.

BELASCO, SIMON, Romance languages, appointed chairman of the speaking and listening committee of the Northeast Conference on the Teaching of Foreign Languages.

Patent

U. S. Patent 3,050,024 for a torpedo propulsion and control system, has been issued to Dr. George F. Wislicenus, Barnes W. McCormick, and Joseph J. Eisenhuth, all of the Garfield Thomas Water Tunnel.

CALENDAR

FRIDAY, OCTOBER 19

Artists Series program by New York Pro Musica, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Room 105 White.

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Peter F. Curran, Biophysical laboratory, Harvard Medical School, on "Biophysics of Biological Membranes."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Philip S. Kelbanoff, National Bureau of Standards, on "Boundary Layer Instability and Transition to Turbulence."

SATURDAY, OCTOBER 20

Alumni homecoming activities. Lunch at 11:30 a.m., HUB.

Hort Show, Ice Rink, all day. Exhibits of horticultural displays on theme, "A Golden Walk of Progress."

Football, vs. Syracuse, 1:30 p.m.

Home Economics Coffee Hour for returning alumni, 10 a.m., Living Center, Home Economics Bldg.

SUNDAY, OCTOBER 21

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Charles C. Noble, dean, Hendricks Memorial Chapel, Syracuse University, on "Your Responsibility for a Fabulous Future."

Hort Show, continued, at Ice Rink.

MONDAY, OCTOBER 22

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Michael Chiapetta, educational advisor, A.I.D. mission to Peru, on "Fact and Fiction About Education in Social and Economic Development."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Jerome L. Palladino, on "Non-Linear Vibrations with Material Damping."

TUESDAY, OCTOBER 23

Plant Science Club meeting, 7:30 p.m., Room 111 Tysen. Dr. Mary Willard, on "Crime and Chemistry."

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." (See Seminars.)

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. (See Seminars.)

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. (See Seminars.)

THURSDAY, OCTOBER 25

Mathematics Colloquium, 7:30 p.m., Room 217 Willard. (See Seminars.)

Opening night of Center Stage production of "The Egg," 8 p.m. (Continues to Nov. 3.)

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. John Fischer, editor of Harper's Magazine, on "What Students Could Do to Improve the Quality of University Education."

Mining Seminar, 4 p.m., Room 304 Mineral Industries. Ivan Jackson, on "Experimental Design—Its Application in Mining."

International Film Committee showing of "Rififi," 3, 7, and 9 p.m., HUB Assembly Room. Tickets at HUB desk Oct. 22.

FRIDAY, OCTOBER 26

Lecture by Dr. Charles Perelman, University of Brussels, Belgium, 8 p.m., Room 204 Boncke, on "Three Aspects of Justice," sponsored by department of philosophy.

Interlandia Folk Dance, 7:30 p.m., 105 White Bldg.

Mineral Industries Colloquium, 3:45 p.m., Room 26, Mineral Industries. Dr. R. A. Strehlow, University of Illinois, on "Explosions, Detonations, and Shock Tubes."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby. Dr. J. R. Rackley, vice president for resident instruction.

TELEVISION LISTINGS

WFBG-TV, Altoona, Channel 10

Second Chair, Monday-Friday, 9 a.m.

Key to the Cupboard, Saturday, 8:30 a.m.

Farm, Home and Garden, Monday-Friday, 1 p.m.

Radiobiology

Dr. Gordon F. Whitmore, associate professor of biophysics, department of medical biophysics, Ontario Cancer Institute, is visiting professor of biophysics for the Fall Term. Each Monday and Wednesday at 1:10 p.m., Room 300 Walker, he lectures on the subject of radiobiology of mammalian cells.

Seminars

Dr. Sidney Weintraub, professor of economics, University of Pennsylvania, will address the Economics Faculty Seminar Tuesday, Oct. 23, in dining room "A" of the HUB, 12:30 p.m. He will speak on "A Revised Keynesian Model."

Dr. Peter Hilton, professor of mathematics at the University of Birmingham, England, but this year at Cornell University, will speak on "Categories" at the Mathematics Colloquium, Thursday, Oct. 25, at 7:30 p.m. in Room 217 Willard.

The Mineral Industries Colloquium, Friday, Oct. 26, at 3:45 p.m. in the M.I. Auditorium, will have Dr. Roger Strehlow, professor of aeronautical and astronautical engineering, University of Illinois. He will speak on "Explosions, Detonations, and Shock Tubes."

Dr. Philip S. Kelbanoff, fluid mechanics section, National Bureau of Standards, will speak on "Boundary Layer Stability and Transition to Turbulence" at the Fluid Mechanics Seminar today (Friday) at 4 p.m. in Room 232 Hammond.

William Slatosky, I.B.M. Industrial Control representative, will speak on "Computer Control of a Basic Oxygen Furnace" at the weekly Metallurgy Seminar, Tuesday, Oct. 23, at 2:20 p.m. in Room 121 Mineral Industries.

"The Role of the University in the Space Program" will be discussed by Dr. Samuel Silver, professor of electrical engineering at the University of California at Berkeley, before the Electrical Engineering Seminar Tuesday, Oct. 23, at 4 p.m. in Room 219 Electrical Engineering.

faculty BULLETIN

Vol. 50, No. 14

Oct. 19

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY



faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Policy

(The following is a statement of University policy on the use of radioisotopes.)

ACCORDING to terms of the Atomic Energy Act the U. S. Atomic Energy Commission has authority over all operations involving most radioactive substances.

The A.E.C. has entered into a working arrangement with the University under which it has granted to the University licenses to possess and handle certain radioactive materials. These licenses are subject to the recognition by the University and its staff of certain rules and procedures, and delegate administrative responsibility to the University for possession, use, storage, and disposal of radioactive materials. The Commission reserves to itself certain rights to revoke or cancel arrangements, to repossess or recall active materials, to inspect facilities and review of procedures.

The continued existence and renewal of the University's licenses depend on the acceptance and observance of recognized procedures by all members of the staff concerned in any way with the handling of radioactive material. The purpose of such procedures is to insure, in so far as is humanly possible, that active materials are handled with the least possible hazard to the individual worker, his associates, and the University facilities.

A condition of one of our A.E.C.
(Continued on page four)

Art lecture

Clement Greenberg, art critic and free lance writer, will lecture on modern art Sunday, Nov. 4, at 8:30 p.m. in Schwab Auditorium.

Greenberg is a frequent contributor to *The Nation*, *Partisan Review*, *Art News*, *Arts*, and other publications and has been associate editor of *Commentary* for 13 years. He is also the author of four books: "Joan Miro"; "Matisse"; "Art and Culture"; and "Hofmann."

Artists series

Sylvia Sidney, veteran of the American stage, will be featured in the Phoenix Theatre production of "The Matchmaker," in two performances in Schwab Auditorium tomorrow (Saturday). Curtain times are 3:30 and 8:30 p.m.

"The Matchmaker" was a hit on Broadway and played to capacity houses for more than a year.

The next Artists Series program will be two performances by Dame Judith Anderson in "Medea," Friday and Saturday, Nov. 9 and 10. Tickets will go on sale to the public Wednesday, Nov. 7.

Alard quartet

The Alard Quartet, in residence at the University for the current year, will present its second public concert Wednesday, Nov. 7, at 8:30 p.m. in Schwab Auditorium.

A concert tour which took the Quartet into Ohio, New York, and Vermont, was completed this week.

Donald Hopkins and Joanne Zagst, violinists, Raymond Page, violist, and Leonard Feldman, violoncellist, comprise the Quartet.

Ming talk

Henry Trubner, curator of the Far Eastern Department of the Royal Ontario Museum at Toronto, Canada, will speak on "Chinese Ceramics of Sung and Ming Dynasties," Tuesday, Nov. 6, at 7:30 p.m., in Room 121 Sparks.

The talk is sponsored by the School of the Arts.

Trubner was curator of Oriental art at the Los Angeles County Museum from 1947-58 and from 1955 to 1958 also taught Far Eastern art at the University of California at Los Angeles. In 1960-61 he was guest director in charge of the organization of the loan exhibition of "The Arts of the Han Dynasty" for the Chinese Art Society of American Inc.

He is the author of many articles and book reviews.

Mayer speaks

Jean Mayer, visiting professor at the School of Public Health, Harvard University, will speak on obesity in the Graduate School Lecture Series Thursday, Nov. 8, at 8 p.m. in Room 121 Sparks.

The title of his talk, which is co-sponsored by the College of Physical Education and Athletics and the College of Home Economics, is "Obesity: Physiological, Psychological, and Social Aspects."

A native of Paris, Dr. Mayer was educated at the University of Paris, received the doctor of philosophy degree in physiological chemistry at Yale University, and the doctor of science degree in physiology at the Sorbonne.

Dr. Mayer's lectures and studies on obesity have attracted wide attention. He has held many appointments on United Nations Committees and has talked before many professional meetings at Stockholm, Brussels, Amsterdam, and Switzerland.

Center stage

Sale of season tickets for University Theatre productions for the current year continues until Nov. 3. Five plays are included for \$4.50. Single performances are \$1 for Monday through Thursday shows and \$1.25 for Friday and Saturday.

"The Egg," satiric comedy by Felicien Marceau, directed by Kelly Yeaton, is now being performed at Center Stage, continuing until Saturday, Nov. 3.

To follow is "The Rivals," the famous Sheridan play which was a standard for many years, at Schwab Auditorium Nov. 15, 16, and 17. It will be directed by Frank Neusbaum.

Services offered

Members of Alpha Phi Omega, national service fraternity, have volunteered their services to organizations, including campus departments, in projects in the best interests of the University and the fraternity itself.

Among the projects aided in the past by the fraternity are: manning of orientation week information booth; visiting students in hospital and furnishing courier service; aiding Bloodmobile; assisting chest x-ray drive; and holding picnics for underprivileged children.

Project request forms may be obtained at the HUB desk or at chapter headquarters, Room 211 HUB.

Aid to the Artist

BENEFITS to the world of the arts in the United States would far exceed the \$5-\$10 million proposed in three bills currently before the U. S. Senate to aid cultural development in the nation, says Dr. Walter H. Walters, head of the department of theatre arts.

Speaking mainly for the theatre but for other arts in general, Dr. Walters appeared before the special Senate Subcommittee on the Arts of the Committee on Labor and Public Welfare to give testimony relative to S. 741, S., 785, and S. 1250 which are designed to establish (1) a Federal advisory council on the arts; (2) program of grants to the states for the development of programs and projects in the arts; and (3) establish the U. S. Arts Foundation.

"There have been other, more or less weak, attempts to aid the arts through federal support in the past," says Dr. Walters, "but none which went as far as these bills nor had the promise of success in the Congress.

"In other countries, particularly European, aid to the arts from governmental sources has been an accepted practice for many years; I am very hopeful of what such aid can do in this country."

As Dr. Walters testified, "There is ample indication of the desire and initiative on the part of groups and individuals throughout America to make the effort to present the various art forms for the public. Their success is uneven . . . but seldom due to the failure of an inquiring public or to the lack of raw talent."

"We are now at a critical time in arts development," Dr. Walters explains, "in that we have people anxious to perform, we have others anxious to witness their performance, but we can't get the two together for want of a little assurance that there will be financial success."

In the commercial theatre, he points out, there are many young people in the metropolitan areas, particularly New York, required to take other jobs to keep going while they try to find opportunities on the stage. Yet the theatre-going public throughout the country has grown by tremendous strides wherever local groups have opened up the opportunity with community theatre or artists series to import shows.

Dr. Walters cited the case of Matter Playhouse in his testimony to support his contention that the public wants theatre and also that when support is given, the benefits are widespread.

"In five years we've outgrown our

theater," he reported. "With a professional nucleus of eight first-rate actors and director, we are currently operating at better than 91 per cent of capacity, serving the interests and needs of a large area of central Pennsylvania . . ."

If the bills are approved as in their most recent form, especially S. 1250, a U. S. Arts Foundation would have the primary responsibility in the promotion of the arts and of providing grants for worthwhile projects, through subvention to organizations and/or states. The Foundation would have a director and a board of trustees consisting of the director and 12 members chosen for six-year terms by the President with the advice and consent of the Senate.

"In a form such as this, I have no qualms about government control of the arts," says Dr. Walters. "This argument has created one of the problems in getting other legislation approved, but I think there would be much less opportunity for government control under this plan than other countries experience."

Dr. Walters specifically indicated that he did not think government aid in this form would lower the standards of art by taking away initiative.

"The pleasures and profits from the arts are not such that people will clamor before the fact," he noted. "The arts must always prove themselves first and they never want for public response if the drive to communicate is always strong."

"Besides," he adds, "the amount of money to be provided by the government under these plans isn't enough to make any artist feel completely secure and undermine his drive to be a good artist."

In 1960, Dr. Walters had a one-month, firsthand look at subsidized theater in West Germany. He was much impressed with the effects of the subsidy on the total program in the country, but not as favorably impressed with the method of aiding the theater—an outright grant of

10 DM per theater seat, occupied or not.

"Basically, the type of subsidy in Germany fits the needs of the public, their heritage, and the theaters," Dr. Walters testified. "In America I do not think the German system would work nor would it be desirable."

Since the details of providing grants are not completely spelled out in the proposed bills, Dr. Walters hesitates to predict what help would be given to educational theater. S. 1250 specifically mentions that the Arts Foundation should consider how the "theatrical and other performing arts and productions may best be stimulated in civic and educational groups . . ."

Educational theatre

"Of course the general stimulation of the theater," he points out, "will have its repercussions in educational theater, but there is considerable leeway in the manner that the trustees could use the money provided, and I think that it may include development of something like the program we have begun at Penn State in the summer—professional actors aiding the instruction program and performing in the context of University theatre. They could also aid in research, management, faculty, facilities, or a number of other ways.

"The broad aspects of the proposed bills are concerned with a wider dissemination of the arts, creating new audiences and new opportunities for the artists. This can mean initiating or expanding local performance, or it can mean taking the artists and/or their works to the potential audiences.

"So far Congress hasn't responded to the urgings for aid to cultural programs, although there has been some sympathy for such aid in the Senate for a number of years.

"Frankly, I think the public back home is ahead of many Congressmen and the smaller rural and industrial towns are just waiting for a chance to prove their interest. These three bills would give them the opportunity.

Thespian show

Tickets for the Penn State Thespian Show, "Razzle McDazzle," to be performed in Schwab Auditorium Thursday, Friday, and Saturday, Nov. 1-3, will go on sale at the HUB desk Monday, Oct. 29. An original musical comedy, the show is styled "a collegiate fairy tale."

CALENDAR

FRIDAY, OCTOBER 26

Lecture by Dr. Charles Perelman, University of Brussels, Belgium, 8 p.m., Room 204 Boucke, on "Three Aspects of Justice," sponsored by department of philosophy.

Interlandia Folk Dance, 7:30 p.m., 105 White Bldg.

Mineral Industries Colloquium, 3:45 p.m., Room 26, Mineral Industries. Dr. R. A. Strehlow, University of Illinois, on "Explosions, Detonations, and Shock Tubes."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby. Dr. J. R. Rackley, vice president for resident instruction.

Center Stage production of "The Egg," 8 p.m.

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Richard Wax, graduate student, on "Thermal Inactivation of Bacillus Subtilis Spores."

SATURDAY, OCTOBER 27

Center Stage production of "The Egg," 8 p.m.

Artists Series presentation of "The Matchmaker," by Phoenix Theatre, Schwab Auditorium, 3:30 p.m. and 8:30 p.m.

SUNDAY, OCTOBER 28

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Harold K. Schilling, dean of the Graduate School, on "Seeing the Unseen."

Hillel Foundation Cultural Series, 8 p.m. Abraham Carmel, British author and lecturer, on "Why I Became a Jew."

MONDAY, OCTOBER 29

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Vladimir de Lissovoy, associate professor of family relations, on "Research in the Middle Years."

College of Physical Education and Athletics faculty meeting, 7 p.m., Recreation Room, White Building.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond, Harry H. Calvit, on "Blast Problems in Spheres."

Mineral Industries Colloquium, 3:45 p.m., Room 26, Mineral Industries.

Dr. J. M. Cowley, University of Melbourne, Australia, on "Electron Diffraction Applied to Materials Research."

Center Stage production of "The Egg," 8 p.m.

TUESDAY, OCTOBER 30

Center Stage production of "The Egg," 8 p.m.

WEDNESDAY, OCTOBER 31

Center Stage production of "The Egg," 8 p.m.

Sigma Xi lecture, 8 p.m., Room 112 Chambers. Dr. W. A. Nash, University of Florida, on "Static and Dynamic Buckling of Thin Shells."

THURSDAY, NOVEMBER 1

Center Stage production of "The Egg," 8 p.m.

Thespian Show, "Razzle McDazzle," 8 p.m., Schwab.

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Charles Berry, on "Replacement of Capital Equipment."

International Film, "Outcasts of the Islands," 3, 7, and 9 p.m., HUB Assembly Room. Tickets at HUB desk Monday, Oct. 29.

FRIDAY, NOVEMBER 2

Center Stage production of "The Egg," 8 p.m.

Thespian Show, "Razzle McDazzle," 8 p.m., Schwab.

Interlandia Folk Dances, HUB ballroom, 7:30 p.m.

Sigma Xi lecture

Dr. William A. Nash, head of the advanced mechanics research section, University of Florida, will address the local chapter of Sigma Xi and all others interested on the topic "Static and Dynamic Buckling of Thin Shells," Wednesday, Oct. 31.

The lecture will be given at 8 p.m. in Room 112 Chambers (Education) Building.

Dr. Nash is Sigma Xi national lecturer at eastern colleges and universities during the fall.

The Symposium, a discussion group open to all faculty members and graduate students who are interested in modernity in the arts and letters, will hold its first meeting Wednesday, November 7, at 7 p.m., in Room 215, Hammond Building.

Its purpose is to develop understanding of the motives and methods of modern experimentation in the arts, through an exchange of information and ideas among scholars in all fields. Topics for papers and suggestions as to organization will be welcomed.

Dr. Helen Adolf, professor of German, will preside at the first meeting. Dr. J. Mitchell Morse, associate professor of English, will speak on "The Choreography of the 'New Novel.'"

NSF FELLOWSHIPS

November 1 is the deadline for receipt of application materials for National Science Foundation Cooperative Graduate Fellowships for 1963-64. The materials are sent to the graduate school which the prospective fellowship holder will attend.

Faculty members are urged to remind seniors and graduate students in the following fields of this deadline: biological, engineering, mathematical and physical sciences, anthropology, economics, geography, psychology (including clinical), and sociology (not including social work).

About 1,500 fellowships will be awarded nationally on March 15, 1963.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Wildlife Management Institute	\$1,000	Aid the Penna. Cooperative Wildlife Research Unit	J. F. Lindzey
Penna. Refining Co.	1,000	Aid to Petroleum Refining Lab	M. R. Fenske
American Poultry and Hatchery Federation	1,000	Poultry respiratory diseases	R. F. Gentry
U. S. Public Health Service	8,017	Oxides of nitrogen	I. C. Hisatune
ibid.	11,442	Old age changes in bone structure	P. T. Baker
H. Rockwell and Son	25	Buckwheat research	H. G. Marshall
U. S. Public Health Service	\$30,000	Absolute configuration and dynamic stereochemistry	L. H. Sommer
ibid.	11,000	Vitamin B-6 and electrolyte balance during pregnancy	R. Pepinsky
Penna. Dept. of Agriculture	5,500	Livestock disease diagnosis	Ruth L. Pike
Atomic Energy Commission	15,666	Carbonate glasses	H. W. Dunne
Penna. Dept. of Mines and Mineral Industries	37,500	Sulphur in bituminous coals	O. F. Tuttle
Office of Naval Research	40,000	Hydrodynamics of submerged bodies	H. B. Charnbury
U. S. Public Health Service	500	Biosynthesis of ethionine	G. F. Wislicenus
ibid.	33,015	Vapor chromatography	M. E. Mallette
General Dynamics Corp.	4,000	Graduate student support in physics	Arthur Rose
Penna. Dept. of Public Instruction	490	DHIA supervisors short course	F. G. Brickwedde
National Science Foundation	250	Grant to an NSF fellow	F. C. Snyder
The Budd Co.	3,011	Install Random Memomotion Drive System	R. W. Talt
The McClintic Endowment	1,500	Aid Southwestern Field Research Laboratory	G. L. Thuermer
Cooperative GLF Exchange	500	Study of economic value of lime	L. D. Wissinger
ibid.	1,000	Fertilization of forest timber	A. S. Hunter
Marathon Oil Co.	3,200	Fellowship in petroleum engineering	R. E. McDermott
			C. D. Stahl

Policy—

(Continued from page one)

licenses is the establishment on this campus of an Isotopes Committee charged with certain authorities and responsibilities. The committee is made up of representatives of the Colleges predominantly involved in the handling of radioactive materials. The committee at present consists of the following members:

W. W. Pratt (Chemistry and Physics), chairman; T. F. Bates (Mineral Industries); R. J. Flipse (Agriculture); H. R. Glenn (University Physician); N. J. Palladino (Engineering).

The committee is responsible to the president of the University and is specifically charged with the following: (a) approval of all applications for procurement of radioactive materials, (b) investigation and evaluation of hazards associated with each individual proposal, (c) maintenance of the required central inventory and disposal records, and (d) maintenance of the required central radiation survey and personnel monitoring records.

Rules and Procedures

The committee is not commissioned to and does not intend to involve itself in consideration of the merit of proposals involving the use of radioactive material. The committee has codified certain rules and procedures for the handling of radioactive material to correspond with general A.E.C. policy. It has established certain operational procedures

President Walker has authorized the establishment of a new system for ordering and receipt of radioactive material.

Effective immediately, all purchase orders for radioactive material should be sent to the Health Physics office, Room 206 Health Center. There the order will be checked to insure that there is no violation of Federal, State, or University regulations. After approval the order will be forwarded to accounting for the usual route.

All orders for radioactive material should indicate that the material is to be delivered to the Health Physics Office, Room 206 Health Center. When received the Health Physics Office will notify the purchaser. While in the Health Physics Office the package will be checked for contamination and the shipment description entered in the radioisotope inventory.

When delivery direct to the purchaser is necessary, as in the case of heavy, bulky, or very short-lived materials, special arrangements should be made with the Health Physics Office.

to be uniform across the Campus. These procedures are established primarily as a matter of safety to personnel and physical facility and because acceptable procedure must be established to conform to Federal and State requirements. These procedures have been made as simple as possible, consistent with such requirements.

The University has established the office of the Health Physicist in the University Health Center. The Health Physicist is Rodger W. Granlund. His services are available to the entire University. His responsi-

bilities include the following: (a) the maintenance of a central file of records of the use, storage and disposal of radioactive materials as required by the A.E.C.; (b) the conduct of such radiation surveys at any time as he feels are necessary to determine that work is being conducted according to recognized procedures; (c) he is to be called upon immediately in any radiological emergency and he will determine and direct procedures to be followed in such emergencies; (d) he determines the necessary monitoring procedures on the various projects and specifies safety observations such as film badges, laboratory procedures, etc. He also maintains records on the results obtained from the interpretation of film badge exposures, completed medical laboratory results, etc.

In addition to the above responsibilities, the University Health Physicist provides certain services. They include: advice; procedural supervision when necessary; calibration of monitoring instruments; the loan of available instruments to responsible persons; the conduct of certain surveys on request of the radioactive material users as an aid in conducting a program; and instruction in radiation safety for inexperienced personnel.

Anyone who contemplates a research project employing radioisotopes may obtain further information by getting in touch with the representative of his College on the University Isotopes Committee, or with the University Health Physicist.

faculty BULLETIN

Vol. 50, No. 15 Oct. 26, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

NRS T. F. MAIRS
PATTEE LIBRARY



faculty BULLETIN

Weekly Publication
the Pennsylvania
State University

CALENDAR

FRIDAY, NOVEMBER 2

Center Stage production of "The Egg," 8 p.m.

Thespian Show, "Razzle McDazzle," 8 p.m., Schwab.

Interlandia Folk Dances, HUB ballroom, 7:30 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. John Imbrie, professor of paleontology, Columbia University, on "Anticipated Geologic Record of Bahamian Sea Bottom."

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Dr. Charles L. Coulter, Laboratory of Molecular Biology, National Institute of Arthritis and Metabolic Diseases, on "Molecular Structure of Myoglobin and Hemoglobin."

SATURDAY, NOVEMBER 3

Football vs. Maryland, 1:30 p.m., Beaver Stadium.

Center Stage production of "The Egg," 8 p.m. (final night.)

Thespian Show, "Razzle McDazzle," 8 p.m., Schwab Auditorium.

SUNDAY, NOVEMBER 4

Chapel Service, 10:55 a.m., Schwab Auditorium. Lawrence E. Dennis, executive associate, American Council on Education, on "The Peace Corps: Mission of Our Time."

Concert by Raymond Brown, associate professor of music, accompanied by Barry Brinsmaid and the Alard Quartet, 4 p.m., Schwab.

Art lecture by Clement Greenberg, 8:30 p.m., Schwab, on modern art.

MONDAY, NOVEMBER 5

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Frederick W. Bateson, distinguished visiting professor of English, on "An Englishman Looks at America."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. G. U. Oppel, on "My Recent Trip to Europe."

Lecture, first of five-day series, by Dr. Ralph Simon, Battelle Memorial Institute, on "Fundamentals of Drilling and Rock Mechanics," 2:20 p.m., Room 304 Mineral Industries.

(Continued on page four)

Enrollment data

Comparison of enrollment data on pages 2 and 3 for the Fall Term with those of last year indicate slight increases at University Park and in the regular programs at the Commonwealth Campuses and large increases in part-time Continuing Education students.

At University Park, total enrollment increased from 17,407 to 17,668; undergraduate enrollment from 14,928 to 15,220; graduate enrollment decreased from 2,152, to 2,131; and special students reduced from 327 to 317.

At the 14 Commonwealth Campuses, enrollment of baccalaureate, associate degree, graduate, and special students totals 3,647 compared to 3,591 last year. Four-year students total 1,881 compared to 1,923 last year; associate degree candidates 1,648 compared to 1,607; and graduate and special students 118 compared to 61 in 1961.

Other off-campus students, including those in part-time continuing education and those listed as "absentia," this year total 2,269, compared to 1,857 last year.

Freshmen at University Park (first three terms) total 3,510 compared to last year's 4,457. First term students number 2,872 compared to 3,658.

Film on t.v.

A special film produced by Dr. William T. Sanders, associate professor of anthropology, and students who participated in an archaeological expedition in Mexico this summer, will be featured on the television show, "Second Chair," at 9 a.m. today (Friday) on WFBG-TV, Altoona, Channel 10. The 30-minute film is titled "Land and Water."

Psychology

Dr. Lyle V. Jones, director of the Psychometric Laboratory at the University of North Carolina, will talk on "Language: A Perspective from the Study of Aphasia," before the Psychology Colloquium Thursday, Nov. 8, at 8 p.m. in Room 111 Boucke. He will present a summary of methods, major results, and conclusions from a research program aimed at the specification of language disorders in aphasia.

DIRECTORY

A list of faculty names omitted from the recently-published telephone directory will be published in a coming issue of the Faculty Bulletin.

Bibliography

Teachers of literature, bibliography, and library science, librarians, bibliophiles, and others in the library field will attend the Second Biennial Conference on Bibliography sponsored by the University Nov. 29 through Dec. 1.

General theme of the meeting will be "The Nature of Literary Evidence."

The department of English, the University Library, the University Press, Center for Continuing Liberal Education, and the College of the Liberal Arts office of research are cooperating in the conference.

Dr. Harrison T. Meserole, associate professor of English, is chairman.

Exhibition

An exhibit of graphic design by Robert Nelson, teacher, painter, and designer, is now on display in Room 105 Temporary Building and will continue until Nov. 16. The gallery is open weekdays from 9 a.m. to 5 p.m.

Nelson is professor of art at Bethel College in Minneapolis. He has received more than 30 awards for his graphic art, including international awards from Graphis Annual in Zurich, Switzerland.

The Arts

Raymond Brown, baritone, accompanied by Barry Brinsmaid, pianist, and the Alard Quartet now in residence at the University will present a concert Sunday, Nov. 4, at 4 p.m. in Schwab Auditorium.

The Alard Quartet will also give a concert Wednesday, Nov. 7, at 8:30 p.m. in Schwab.

On the Artists Series, Dame Judith Anderson will perform "Medea" Friday and Saturday, Nov. 9-10, at 8:30 p.m. in Schwab. Tickets for these performances go on sale to the public Wednesday, Nov. 7 at the HUB desk.

University Theatre production of "The Egg" concludes this weekend, the final performance at Center Stage being at 8 p.m., Saturday, Nov. 3.

Clement Greenberg, free lance writer and art critic, will speak on modern art Sunday, Nov. 4, at 8:30 p.m. in Schwab Auditorium.

Brown's concert Sunday will feature songs of Mozart, Beethoven, and Schubert in the first half and of modern composers in the second. In the latter will be included Samuel Barber's "Dover Beach," arranged for

(Continued on page four)

Registrar Reports on Enrollment for Fall Term, 1962

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
AGRICULTURE															
ABSc	187	22	13	263	41	34	242	48	32	193	74	40	....	....	1189
LArch	14	1	1	14	1	1	23	3	....	12	....	2	....	....	72
2-Yr. Ag	21	1	2	5	2	....	4	....	....	....	....	....	....	....	35
Total	222	24	16	282	44	35	269	51	32	205	74	42	....	....	1296
BUSINESS ADMINISTRATION															
BA	309	27	12	315	66	55	413	79	58	280	86	63	....	....	1763
Total	309	27	12	315	66	55	413	79	58	280	86	63	....	....	1763
CHEMISTRY & PHYSICS															
C&P	310	24	5	9	14	....	2	1	....	1	....	....	....	....	366
ChE	....	....	....	56	12	4	69	5	8	43	18	1	....	....	216
Chem	2	....	1	76	5	3	35	13	3	18	11	3	....	....	170
Phys	....	....	2	56	8	4	46	12	12	20	7	6	....	....	173
PM	....	....	1	60	6	4	41	9	8	28	5	3	....	....	165
Sc	....	....	....	14	2	2	11	5	4	13	5	4	....	....	60
Total	312	24	9	271	47	17	204	45	35	123	46	17	....	....	1150
EDUCATION															
AEd	....	....	....	24	12	12	28	18	9	31	7	2	....	....	143
Ed	329	139	16	31	27	7	2	1	....	....	....	....	....	....	552
EKEd	....	1	2	172	40	36	270	53	34	184	52	22	....	....	866
lArt	....	....	1	5	1	2	5	3	8	5	4	9	....	....	43
MuEd	....	....	....	15	2	5	13	6	1	11	5	4	....	....	62
Psy	1	....	1	65	16	13	97	18	35	76	21	17	....	....	360
RehEd	....	....	....	9	4	6	22	7	5	11	3	1	....	....	68
SecEd	....	....	2	204	44	45	243	48	63	175	47	28	....	....	899
VIEd	....	....	....	....	....	....	....	....	....	3	....	....	....	....	3
Total	330	140	22	525	146	126	680	154	155	493	142	83	....	....	2996
ENGINEERING & ARCHITECTURE															
AerSP	1	1	....	38	4	4	54	17	6	35	7	9	....	....	176
AgE	5	....	....	13	1	1	12	2	2	7	2	2	....	....	47
Arch	77	1	....	58	6	5	39	5	4	25	5	2	13	2	245
AE	18	2	....	8	2	....	8	1	....	3	1	1	7	....	54
CE	....	....	....	19	9	4	12	54	12	28	21	5	16	....	180
EE	....	....	1	100	30	23	165	37	39	137	36	54	....	....	622
Engr	589	30	32	190	51	8	5	2	....	....	....	....	....	....	907
EMch	....	....	....	5	....	2	15	4	2	15	4	....	....	....	47
ESc	....	....	....	15	2	....	17	3	....	13	2	....	....	....	52
IE	....	2	....	11	3	6	39	8	5	23	9	12	....	....	118
ME	....	1	4	46	5	6	87	22	10	64	19	18	....	....	282
SE	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total	690	37	37	503	113	59	453	155	80	350	106	103	36	2	2730
HOME ECONOMICS															
HEc	98	47	2	135	34	14	124	28	18	96	35	16	....	....	647
HA	....	....	....	....	....	....	....	....	....	....	....	4	1	....	5
2HFS	46	1	1	30	4	....	1	....	....	....	....	....	....	....	83
Total	144	48	3	165	38	14	125	28	18	96	35	20	1	....	735
THE LIBERAL ARTS															
AL	1	3	2	564	77	51	394	103	67	263	105	49	....	....	1679
LA	641	141	19	19	21	12	9	3	3	....	1	....	....	....	869
LMR	....	....	....	6	3	....	8	1	....	13	2	2	....	....	35
School of The Arts															
AArt	....	1	....	23	9	3	37	2	3	23	8	....	....	....	109
Arts	....	....	....	14	4	....	7	5	2	7	5	1	....	....	45
School of Journalism															
Journ	....	....	....	59	15	9	70	11	6	50	9	6	....	....	235
Total	642	145	21	709	134	80	538	135	91	362	137	62	....	....	3056
MINERAL INDUSTRIES															
CerT	....	....	....	12	....	1	19	1	2	8	1	2	....	....	46
FT	....	....	....	7	....	....	4	2	....	5	3	....	....	....	71
Geog	....	....	....	....	1	....	5	....	....	4	....	4	....	....	14
GC	....	....	....	....	....	....	2	3	....	2	....	....	....	....	7
GM	....	....	....	....	....	....	1	1	1	2	....	1	....	....	6
GSc	....	....	2	11	....	1	14	5	2	8	....	1	....	....	44
Metal	....	....	....	17	2	1	21	....	2	14	1	4	....	....	62
Meteo	....	....	....	22	3	5	17	15	4	26	4	1	....	....	97
MnEc	....	....	....	5	....	....	3	....	1	7	....	3	....	....	19
MnI	72	6	8	6	6	....	....	....	....	....	....	....	....	....	98
MPE	....	....	....	....	....	....	2	1	1	3	1	....	....	....	8
MngE	....	....	1	6	7	....	1	2	....	5	2	....	....	....	24
PNGE	....	....	....	4	2	1	2	1	1	4	2	5	....	....	22
Total	72	6	11	90	21	9	91	31	14	88	14	21	....	....	468

Registrar Reports on Enrollment for Fall Term, 1962

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	
PHYSICAL EDUCATION & ATHLETICS																
PhEd	37	10	3	42	10	7	48	15	6	46	15	19	....	....	....	258
RecEd	....	....	....	2	....	2	8	2	....	9	3	4	....	....	....	30
Total	37	10	3	44	10	9	56	17	6	55	18	23	....	....	....	288
DIVISION OF COUNSELING																
Coun	114	29	14	299	62	44	135	14	5	14	5	3	....	....	....	738
Total	114	29	14	299	62	44	135	14	5	14	5	3	....	....	....	738
TOTAL UNDERGRADUATES																
Total	2872	490	148	3203	681	448	2964	709	494	2066	663	437	37	2	6	15220
U. P. Campus																
	Freshman		Sophomore		Junior		Senior		Graduate		Special				Totals	
	M	W	M	W	M	W	M	W	M	W	M	W	M	W		T
Full-Time	2350	1157	2743	1574	2661	1482	2177	1002	570	123	45	17	10546	5355		15901
Part-Time	.....	3	10	5	16	8	23	9	1208	230	132	123	1389	378		1767
Total	2350	1160	2753	1579	2677	1490	2200	1011	1778	353	177	140	11935	5733		17668
	3510		4332		4167		3211		2131		317					
Other Campuses																
Full-Time (4-Yr.)	727	375	515	186	22	9	2	....	....	....	16	4	1282	574		1856
Part-Time (4-Yr.)	26	1	7	5	2	2	2	....	1	....	48	49	86	57		143
Full-Time (2 Yr.)	931	11	618	3	....	....	....	....	....	....	2	....	1551	14		1565
Part-Time (2 Yr.)	14		60		....	....	....	....	....	....	9	....	83	....		83
Total	1698	387	1200	194	24	11	4	....	1	....	75	53	3002	645		3647
Part-Time																
Cont. Ed. Classes			....	....	....	....	....	....	189	87	919	933	1108	1020		2128
Absentia			....	....	....	....	....	....	116	25	....	....	116	25		141
Total Other Campuses	1698	387	1200	192	24	11	4		306	112	994	986	4226	1690		5916
TOTAL ALL	4048	1547	3953	1773	2701	1501	2204	1011	2084	465	1171	1126	16161	7423		23584
CAMPUSES	5595		5726		4202		3215		2549		2297					

Summary of Enrollment at Other Campuses

	Four-Year		Graduate		Special		Two-Year		Total
	FT	PT	FT	PT	FT	PT	FT	PT	
Allentown	....	....	....	....	....	2	108	2	112
Altoona	204	8	....	....	9	39	147	8	415
Behrend	225	3	....	....	2	3	109	7	350
DuBois	61	1	....	....	4	3	59	3	131
Hazleton	129	23	....	....	....	3	104	6	265
McKeesport	164	5	....	....	....	16	175	16	376
Mont Alto	89	....	....	....	....	....	....	....	89
New Kensington	....	....	....	....	....	....	96	2	98
Ogontz	805	5	....	1	3	21	121	5	961
Pottsville	158	1	....	....	4	14	48	....	225
Scranton	....	....	....	....	1	....	109	1	111
Wilkes-Barre	....	....	....	....	1	1	166	11	179
Wyomissing	....	....	....	....	....	....	199	5	205
York	....	....	....	....	....	....	123	7	130
Total	1835	46	....	1	20	104	1564	73	3647

Graduates and Specials

	Graduate		Special	
	M	W	M	W
Agriculture	251	24	9	2
Business Adm.	66	2	24	4
Chem. & Phys.	326	20	15	8
Education	247	104	35	34
Eng. & Arch.	234	2	11	2
Home Economics	5	58	1	10
Liberal Arts	294	124	75	79
Mineral Ind.	269	7	4	1
General Graduates	17	....	....	....
Phys. Ed.	33	10	3	....
Interdisciplinary Fields:				
B. Phys.	14	2	....	....
SST	22	....	....	....
Total	1778	353	177	140
	2131		317	

Recapitulation

Other Campuses and Off-Campus			University Park Campus		
	M	W		M	W
Full-Time Undergraduate	2815	584	3399	9931	5215
Part-Time Undergraduate	111	8	119	49	25
Part-Time Continuing Education					
Classes Undergraduate	919	933	1852	570	123
Part-Time Graduate	1	....	1	1208	230
Part-Time Continuing Education					
Classes Graduate	189	87	276	1778	353
Absentia	116	25	141	45	17
Full-Time Special	18	4	22	132	123
Part-Time Special	57	49	106	177	140
Totals	4226	1690	5916		
			Total All Campuses		
			Undergraduate	13825	6765
			Graduate	2084	465
			Special	252	193
			Grand Totals	16161	7423
					23584

Calendar—

(Continued from page one)

TUESDAY, NOVEMBER 6

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Lecture by Dr. Ralph Simon (see Monday), 11:10 a.m., Room 304 Mineral Industries.

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries, Stanley Zionts, U. S. Steel Applied Research Laboratory, on "Materials Handling Facility Planned in an Oxygen Steelmaking."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Thomas Rogers, on Evelyn Waugh.

Lecture by Henry Trubner, Royal Ontario Museum, Toronto, on "Chinese Ceramics of Sung and Ming Dynasties," 7:30 p.m., Room 121 Sparks.

Economics Faculty Seminar, 12:30 p.m., HUB dining room 'A.' Philip A. Klein, on "Financial Adjustments to Unemployment."

WEDNESDAY, NOVEMBER 7

Concert by Alard String Quartet, 8:30 p.m., Schwab.

Lecture by Dr. Ralph Simon (see Monday), 2:20 p.m., Room 304 Mineral Industries.

Meeting of Central Penna. Section, American Chemical Society, 8 p.m., Room 112 Buckhout. Dr. J. F. Schaner, Geophysical Laboratory, on "Chemistry of the Earth's Crust—The Experimental Approach to Geology."

Lecture by Dr. George Z. F. Bereday, Columbia University, 8 p.m., Room 121 Sparks, on "Soviet Education."

Symposium on modernity in the arts and letters, 7 p.m., Room 215 Hammond. Dr. J. Mitchell Morse on "The Choreography of the 'New Novel.'"

THURSDAY, NOVEMBER 8

Meeting of the faculty of the College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Psychology Colloquium, 8 p.m., Room 111 Boucke. Dr. Lyle V. Jones, University of North Carolina, on "Language: A Perspective from the Study of Aphasia."

Lecture by Dr. Ralph Simon (See Monday), 4 p.m., Room 304 Mineral Industries.

International Film, "Umberto B," 3, 7, and 9 p.m., HUB Assembly Room. Tickets on sale Monday at HUB desk.

Philosophy Colloquium, 4 p.m., Room

203 Willard. William Wisdom, on "Necessary and Contingent Truths in the Philosophy of Leibniz."

Lecture by Jeffrey Ellis Aronin, architect of New York City, 7:30 p.m., Room 101 Chambers, on "Interior Office Design."

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. Jean Mayer, School of Public Health, Harvard University, on "Obesity: Physiological, Psychological, and Social Aspects."

FRIDAY, NOVEMBER 9

Artists Series, 8:30 p.m., Schwab. Dame Judith Anderson, in "Medea." Also Saturday.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Arts—

(Continued from page one)

voice and string quartet. Other works will be Paul Bowles "David"; Theodore Chanler's "The Lamb"; Elliot Carter's "The Dust of Snow" and "The Rose Family," both poems by Robert Frost; Igor Stravinsky's setting of Paul Verlaine "Sagesse" and "La bonne chanson."

The Alard Quartet will present its second concert of the term Wednesday, having only recently returned from a short concert tour in nearby states. The concert will include Scarlatti's "Sonata a Quattro"; Bartok's "Fifth Quartet"; Schubert's "Quartet-satz, Op. Post."; and Ravel's "Quartet in F."

Football lunch

Once again the Department of Housing and Food Services has arranged to serve luncheon between 11 a.m. and 12:45 p.m. at East Halls dining room Saturday as a convenience to football fans attending the Penn State-Maryland game. Cost is \$1.25. The service will also be provided before the West Virginia game Nov. 10.

Books

and other publications

Joseph L. Grucci's fourth collection of poems has been published by Mayer Press, Pittsburgh. Titled "The Invented Will," the collection follows "Time of Hawks," which won high praise and went into second printing, unusual for books of poetry. Grucci is associate professor of English and director of the Poetry Workshop, which annually publishes "Pivot," poems of the students in the Workshop.

"The Shaw Review," September issue, edited by Stanley Weintraub, associate professor of English, and published by the University Press. Available exclusively to members of The Shaw Society of America and to libraries, the Review has been edited by Weintraub since 1956.

The University Press this week published Dr. Ruth Silva's book, "Rum, Religion, and Votes: 1928 Re-examined," a study of the 1928 presidential election campaign in which Alfred E. Smith was defeated by Herbert Hoover.

Dr. Silva, professor of political science, examines the factors in Smith's defeat and concludes that rather than the causes customarily given, the defeat was of the Democratic party.

BOOKLET

A booklet describing the services and equipment of the Audio Visual Services in Room 3, Pattee Library, is available to faculty members. Lists of films and other materials not appearing in published catalogs also appear in the booklet. Call UN 5-6314.

faculty BULLETIN

Vol. 50, No. 16 Nov. 2, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

The Arts

Dame Judith Anderson will star in two of her greatest roles on the **Artists Series** tonight (Friday) and Saturday at 8:30 p.m. in Schwab Auditorium.

With a supporting cast she will present Act I of "Lady MacBeth" and Acts II and III of "Medea." The cast will include William Roerick, Lilyan Chauvin, and Fred Forsman.

"**The Rivals**," by Richard Sheridan, will be the next **University Theatre** production, Thursday through Saturday, Nov. 15-17. The 18th-century comedy will be directed by Frank Neusbaum and will be given in Schwab Auditorium. Curtain time is 8 p.m.

Leads in the play will be taken by Joanne Beegle, as Mrs. Malaprop; Judi Sieber, as Lydia Languish; James Dewsnap, graduate student in theatre arts, as Capt. Jack Absolute; Warren Burns, as Bob Acres; and Ian Christie, special student from Glasgow, Scotland, as Sir Lucius O'Trigger.

Tickets are on sale at the box office Monday through Friday, 11 a.m. to 1 p.m. and 4 to 6 p.m. Reservations may be made by calling UN 5-6309.

The exhibition of graphic design by **Robert Nelson**, now on display at Room 105 Temporary, will continue until Nov. 16. An exhibition of the works of Alfred McAdams will open Nov. 19.

Faculty forum

Dr. Elfan Rees, permanent secretary for the Commission on the Churches in International Affairs who is currently in this country attending sessions of the United Nations, will be the principal speaker at a Faculty Forum, sponsored by the University Christian Association, Saturday, Nov. 10, at 8 p.m. in the memorial lounge of the Helen Eakin Eisenhower Chapel.

He will speak on "Christian Witness in International Affairs," and all faculty members and others interested are invited.

Dr. Rees, who saw service as a member of the Royal Air Force, has undertaken assignments for the U.N. in Korea and for the World Council of Churches in Germany and Lebanon.

Film showing

A program of four motion pictures, presented by the department of architecture, will be shown Monday, Nov. 12, at 7:30 p.m. in Room 322 Sackett.

The four films are titled "Eero Saarinen: An Appreciation"; "Trade Tattoo"; "Musical Poster Number One"; and "Colour Box."

The first portrays the life work of the famed architect and assesses the importance of his work to the architecture of the future. The other three films are concerned with the work of Len Lye, famed British photographer.

Art show

An unusual art show, in which the works of seven faculty and staff members will be featured, will be held Saturday and Sunday, Nov. 17 and 18, from 2 to 7 p.m. in the Highland Model Home in Park Forest Village, 1963 Norwood Lane. All of the artists live in the Village.

Each of the artists will show five or six oils or pieces of sculpture and a portfolio of smaller prints or woodcuts.

The artists to be represented include **Dr. John Cataldo**, associate professor of art education; **Paul Edmonston**, also associate professor of art education; **Dr. George Pappas**, associate professor of art and art education; **Marilyn Pappas**, instructor of art education; **Mary Rubinstein**, teaching sculpture in the Adult Education; **Bruce Shobaken**, assistant professor of art; and **Ron Slawson**, television production specialist.

(Continued on page three)

Term Committee

The Committee for Term System Analysis, a sub-committee of the Senate Committee on Educational Policy, is currently considering problems relating to the implementation of the Term Calendar.

Among the problems being considered are:

1. Student research projects requiring more calendar time than is available in the term.

2. Difficulty in covering same material in a term as in a semester.

3. Greater proportional loss of class time resulting from field trips, illness, extra-curricular activities, and faculty attendance at professional conferences.

4. Apparent increase in faculty time on administrative tasks, notably advising and scheduling.

5. Calendar difficulties experienced by public school teachers wishing to attend Summer Term.

6. Faculty concern over prospect of teaching four terms per calendar year.

7. Student and faculty health and morale problems.

8. Effects on library facilities resulting from concentration of student demand for library materials.

Faculty members who have suggestions for the modification of the Term System are asked to contact one of the following Committee members: Marvin E. Rosen (UN 5-8307); Philip S. Skell, (UN 5-5652); James E. Wright (UN 5-5013); John R. Zimmerman, (UN 5-2761); Robert W. Green, chairman, (UN 5-7583).

The next meeting of the Committee is scheduled for Nov. 21; suggestions should reach the members before that date.

Thanksgiving

Faculty members wishing to entertain students from foreign countries at Thanksgiving dinner are asked to call Mrs. Chauncey Lang, AD 7-2479, to make arrangements. Those who will extend invitations directly are also asked to contact Mrs. Lang so that she may make note of the invitation on her list of international students.

Last year more than 300 students were invited to join Centre Countians for one of the two meals on Thanksgiving Day.

Moved

The addressing service formerly housed on the first floor of McAllister Hall has been moved to Room 137 Temporary Building.

Automation in Library

OVER a period of some years, Penn State's library system hopes to adopt many of the automation techniques industry has used for a decade or more to save labor, time, and money in its operations.

A research and development operation has been initiated, with Thomas L. Minder, librarian of the College of Engineering, as head, with the view of studying the usefulness of industrial control methods in the various departments of the library.

"Curiously enough," Minder says, "even though some of these techniques now seem fairly obvious to us after a preliminary look at the picture, Penn State would be a leader in the library field by adopting these methods now."

"Of all the college and university libraries that I know of, and for that matter such others as the Library of Congress, only the Navy Pier Division of the University of Illinois has a plan for extensive use of automated equipment, and particularly data processing types, in its operations."

"A few colleges now are automated in certain sections, but on a very limited scale. We will have to be experimenters in the field."

The first steps toward automation will be the study of methods of using digital computers and other data processing machinery to reduce the routine clerical work in the library, to improve service and cut costs.

"For example," Minder explains, "we spend many clerical man-hours daily on checking whether various books are on reserve, of which there are currently 25,000. It would seem fairly simple to develop a system to inform the potential borrower at the card catalogue file that the book is on reserve rather than requiring him to go to the circulation desk, as he must do now, taking both his time and that of the clerk."

A second use of data processing methods, one which also appears practicable in the near future, has to do with periodical cataloguing. At present, the only complete list of periodical holdings is maintained in the Central Serials Record, available to the public only on a very limited basis. With relatively simple equipment a complete catalogue, up to date, could be provided all the branch libraries overnight. Many readers would thus be apprised of the existence of the periodical on the campus very soon after receipt.

The potential advantages of the use of data processing and other automating equipment appear to be the reduction of clerical work by profes-

sional librarians (a real bugaboo to head librarians today); improved service in many areas; better use of materials; elimination of many clerical errors; and lower relative costs.

"Our library is currently a million dollar business," Minder says, "and at the rate information is being published we will have neither the personnel nor the time to cope with the demands in the near future unless we get some kind of mechanical help."

LIBRARIANS NEEDED

"It is expected, for example, that by 1970 some 80,000 professional librarians would be required in this country but only 60,000 would be available."

"By taking much of the clerical work they are now required to do off of their hands, they could be released to spend more of their time on meaningful decisions."

Minder points out that some of the present library problems exist because many of the clerical staff members remain in their jobs for only a year and there is a continual retraining process going on, taking some of the professional librarian's time and making for more inefficiency and more errors.

A second problem to be attacked is that of improved service to the people who use the library, in terms of time and availability of materials. For example, it would be feasible to set up a subject matter file on a book which might include 20 subjects or more, whereas the present practice is to limit the number of subjects under which a book is listed.

"The advantage to the researcher is obvious," Minder says. "He would not have to spend nearly as much time at the card catalogue and he would be better informed on the materials available which are pertinent to his study."

One of the slower processes in any library is the obtaining of new books, a process which Minder feels certain can be automated to considerable advantage. In the ordering, accounting, and, to a certain extent, the cata-

loguing steps of getting a book into use, considerable clerical help is currently needed which could be eliminated.

Looking beyond the immediate problems, Minder foresees a use of data processing equipment which would extend the usefulness of the library manifold: the storage and retrieval of information in all types of publications.

SPECIALIZATION

"No one library could ever hope to automate to the extent of storing all knowledge in all fields; libraries such as ours would be expected to specialize in a certain area of knowledge."

"Projects of this kind will require a great amount of initial research and we won't attempt anything of the sort until we have become more mature in the use of equipment and data processing. At the present time the equipment isn't available to do the job anyhow but it might well be by the time we are ready for it."

One of the interesting possibilities in the near future is the service to faculty members of informing them about the latest books and other publications in fields of their interest.

"The faculty member would simply indicate, perhaps by a number, the various interests he has," Minder describes. "For example, a sociologist may indicate he is interested in studies on integration, population trends, and employment data. When publications relating to these subjects are catalogued, the subject matter indexing system would automatically prepare a notation that Professor Jones should be informed the publications are on hand."

"The best we can do today is give the faculty members a list of all recent acquisitions and the subject isn't pinpointed for him."

Minder believes that Penn State will be a leader in the field because of the outstanding data processing organization already in existence on the campus. He hopes to obtain three pieces of equipment very soon for use by the library personnel—card punching, card printing, and sorting machines—but will rely on the computers and other equipment in Old Main and Boucke Buildings for the other necessary operations.

The title of the new operation is very apt, however. He expects there will have to be much research before there is development simply because the Library has little prior experience to go on.

OFFICE	NAME	TITLE	OFFICE ADDRESS	HOME ADDRESS	HOME
6847	*Kern E Jerome	Instr Engr & Arch	See Code 14 Pg 3	75 W Chestnut St Dallastown Pa	
UN 5-6842	*Knoll Marjorie M	Dept Head Hm Hsg & H Art	271 Home Ec South	307 S Corl St State College Pa	AD 8-8180
UN 5-6493	*Krimmer Betta	Instr Sec Sci	241 Chambers Bl	3 Harris Acres R D State College	
UN 5-6381	*Kuhre Walter W	Instr Lib Arts English	228 Sparks Bl	502 W. Beaver Ave State College	AD 8-9648
UN 5-2492	*Kuspit Donald B	Instr Phil	216 Sparks Bl		
DI 4-8911	*Landerberger Jesse H	Co Agri Agent	See Code 52 Pg 3	416 Highland Ave Clarks Summit	JU 6-8261
UN 5-2584	*Leibowitz Herschel	Prof Psychology	2 Burrowes Bl	500 Glenn Rd State College Pa	AD 8-6068
ST 4-6660	*Little Richard F	Asst Co Agri Agent	See Code 36 Pg 3	582 W Main St Bloomsburg Pa	ST 4-6632
MI 3-1660	*Lockhoff Harold L	Co Agri Agent	See Code 48 Pg 3	Sharon Heights Huntingdon Pa	MI 3-3425
UN 5-2527	*Lowis George W	Instr Soc & Anthy	240 Sparks Bl	447 Hillcrest Ave State College	AD 7-2892
UN 5-7471	*Lucas John A	Assoc Prof Phys Ed & Ath	301 Recreation Bl	304 Fry Dr State College Pa	AD 8-3623
UN 5-2567	*Lundy Richard	Prof Dir Cline Tr Prog	203C Burrowes Bl		AD 8-8312
UN 5-2201	*Lutz Albert C	Asst Poult Farm Supt	Poultry Plant	1113 W College Ave State College	AD 7-3326
334-3114	*Lutz Joseph F	Asst Co Agri Agt	See Code 18 Pg 3	203 Ewell Ave Gettysburg Pa	
UN 5-6804	*Malcolm Robert E	Asst Prof Acctg Bus Adm	335 Boucke Bl	255 S Corl Apt 4 State College Pa	AD 8-0395
UN 5-5121	*Manson Donald D	Instr Spec Dept	312 Sparks Bl		
6159	*Mayer Nova L	Ext Home Econ Agri Ext	See Code 73 Pg 3	1210 Somerset Ave Windber Pa	1110
UN 5-7685	*McCurdy Joseph A	Assoc Prof Agri Eng Ext	108 Agri Eng Bl	414 E McCormick Ave State Coll	AD 8-8594
UN 5-8391	*McDonnell Archibald	Res Asst Civil Eng	218 Sackett Bl	331 W College Ave State College	AD 7-2251
UN 5-5406	*McHale William J	Asst Prof Agri Ext	261 Home Ec South	217 Easterly Pkwy State College	AD 8-8566
OR 2-9628	*McIlhenny David J	Instr Engr	See Code 6 Pg 3	Irwin Pa	
UN 5-6381	*McManis Jack B	Instr Engl	233 Sparks Bl	1133 Old Boalsburg State College	AD 8-1934
UN 5-4921	*Melander Eugene R	Lecturer Stat Bus Admin	324A Boucke Bl		AD 8-8247
UN 5-8337	*Melton Alfred W Jr	Asst Prof Ch Dev Fam Rel	110C Home Ec South	1880 N Oak La State College Pa	AD 8-9665
UN 5-6813	*Miller Franklin A	Head Dept Educ Serv	164 Chambers Bl	135 W Mitchell Ave State College	AD 7-7737
UN 5-4242	*Milyov Veryl J	Asst Agri Biochem	310 Frear Lab		AD 8-6403
UN 5-2422	*Mitzel Harold E	Prof Psych	309B Sparks Bl	928 S. Sparks St State College Pa	AD 7-2719
UN 5-7789	*Mitzel Harold E	Asst Dean Research Educ	277 Chambers Bl	928 S. Sparks St State College Pa	AD 7-2719
UN 5-8397	*Mock Edward J	Instr Finance Bus Admin	324B Boucke Bl	961 O Boalsburg Rd State College	AD 8-8868
UN 5-7554	*Muench John Jr	Instr in Forestry	206 Forestry Bl	216 Easterly Pkwy State College	
UN 5-7554	*Muhlenberg Nicholas	Res Asst Sch For	206 Forestry Bl	305 Adams State College Pa	AD 7-3807
UN 5-5121	Myette Elizabeth	Instr Speech	312 Sparks Bl		AD 8-8550
UN 5-8321	*Nelson Richard E	Instr Theatre Arts	Nittany Hl 20		
UN 5-7586	*Neusbaum Frank S	Prof Theatre Arts	205 Schwab Aud	110 Hubler Rd R D 1 State Coll	HO 6-6153
UN 5-5132	*Nichols Lester P	Assoc Prof Pl Path Ext	211 Buckhout Lab	161 Nittany Dr State College Pa	HO 6-6990
UN 5-5121	*Olbriecht Thomas	Instr Spec Dept	312 Sparks Bl	500 Hillside Ave State College Pa	
UN 5-6062	*Packer William C	Maint Supv Housing	6 Irvin Hl	R. D. 1 Port Matilda Pa	
UN 5-5491	*Parkin Ivan E	Prof D Sci Ext	Borland Lab	604 N Burrowes St State College	AD 7-7875
UN 5-5121	Preston Lillian	Instr Speech Dept	312 Sparks Bl		
UN 5-2851	*Price Frank	Asst Supv Housing	Holmes Hl	R D 1 Morrisdale Pa	DI 2-1205
UN 5-5491	*Putnam Dexter N	Assoc Prof Dairy Sci Ext	213 Borland Lab	331 S Gill St State College Pa	AD 8-6067
UN 5-6351	*Remick Forrest J	Act Director Nucl Reactor	Nuclear Reactor Bl	455 E Foster Ave State College	AD 7-7829
371-2800	*Saifi Mansoor A	Instr Engr	See Code 4 Pg 3	522 Park Ave Clearfield Pa	PO 5-8800
UN 5-2584	Schipper Lowell	Assoc Prof Educ	5 Burrowes Bl	613 W. Park Ave State College Pa	
UN 5-2529	*Schleicher Ella L	Asst Food Supv	Waring Hl	515 Linden Rd State College Pa	AD 8-3845
UN 5-7591	Seni Patricia	Instr Ph Ed & Ath	101 White Bl	127 W Hamilton Ave State College	AD 8-2764
UN 5-5491	*Shaffer Harvey E	Assoc Prof D Sci Ext	213 Borland Lab	1181 William St State College Pa	AD 8-6409
UN 5-6381	Shedd Gordon M	Instr Lib Arts	228 Sparks Bl	R D Petersburg Pa	
UN 5-6597	*Smith Donald L	Asst Prof Journ Lib Arts	214 Carnegie Bl		
UN 5-4861	*Spangler Margaret K	Asst Librarian	202 Pattee Libry	601 Ridge Ave State College Pa	AD 7-2780
UN 5-5491	*Specht Lawrence W	Asst Prof D Sci Ext	8 Borland Lab	315 W Foster Ave State College	AD 8-0058
UN 5-5491	*Speneer Stephen B	Asst Prof Dairy Sci Ext	9 Borland Lab	230 E Whitehall Rd State College	AD 7-3298
UN 5-7583	*Stagakis George	Asst Prof History	Sparks Bl		
FR 3-5236	*Steffy Denton A	Instr Engr	See Code 13 Pg 3	R D 1 Reinholds Pa	678-2739
UN 5-8397	*Stegall Donald P	Asst Prof Bus Adm	324B Boucke Bl	1400 Linn St State College Pa	AD 7-7996
UN 5-8391	*Stephens Liam F	Visiting Assoc Prof Engr	206M Sackett Bl	2029 Highland Dr State College	AD 7-3221
UN 5-5031	Swan William C	Instr Ph Ed & Ath	203 Recreation Bl	329 E Mitchell Ave State College	AD 8-6931
UN 5-2761	*Sweeney Joseph A	Instr Mech Engr	328F Hammond Bl	332 W Prospect Ave State College	AD 8-3168
UN 5-7517	*Tarman James I	Spts Inf Sect Hd Pub Inf	309 Old Main Bl	507 Beaumont Dr State College	HO 6-6852
UN 5-5132	*Taylor Carlton F	Prof Pl Path Ext	211 Buckhout Lab	Pine Grove Mills Pa	AD 8-1730
UN 5-5491	*Taylor Joe S	Prof Dairy Sci Ext	213 Borland Lab	634 W Nittany Ave State College	AD 7-2774
UN 5-4333	*Tesi A. Frank	Assoc Prof Cl Tex	264 Home Ec South	412 W Fairmount Ave State Coll	AD 7-2866
UN 5-5121	Thomas Mary J	Instr Spec Dept	312 Sparks Bl		
CR 2-8440	*Tibbott Eunice N	Ext Home Econ	See Code 28 Pg 3	313 Tibbott St Ebensburg Pa	GR 2-7915
KI 6-3924	*Tompkins Eleanore C	Ext Home Econ	See Code 68 Pg 3	3218 Midvale Ave Philadelphia 29	VI 8-0751
PO 5-7878	Tritt Janet E	Ext Home Econ	See Code 34 Pg 3	315 Ogden Ave Clearfield Pa	PO 5-7447
334-3114	*Tunison Helen D	Ext Home Econ	See Code 18 Pg 3	R D Fairfield Pa	642-8659
OR 2-9628	*Walker William S	Asst Prof Eng Eng & Arch	See Code 6 Pg 3	3514 Shadeland Ave Pittsburgh 12	PO 6-8080
6847	*Walsh William J	Instr Eng Eng & Arch	See Code 14 Pg 3	746 Lafayette Ave Palmerton Pa	
UN 5-5444	*Watrous George H Jr	Assoc Prof Dairy Mfg	107 Borland Lab	647 Fairway Road State College	AD 7-2109
UN 5-8391	*Whisler Benjamin A	Dept Head Civil Eng	212 Sackett Bl	625 N Holmes St State College	AD 7-2094
DI 7-9726	*White Woodrow W	Instr Eng Eng & Arch	See Code 11 Pg 3	212 Clark Ave Clarks Summit Pa	JU 6-9646
BL 3-4111	Whitten Joan W	Assoc Ext Home Econ	See Code 65 Pg 3	223 McCartney St Easton Pa	BL 8-0156
UN 5-8436	*Whittier Joan G	Instr Home Econ	119A Home Econ Bl		AD 8-2125
UN 5-4361	Wiles Mary Jane	Sr Cataloger Univ Lib	210 Pattee Libry	300 Adams Ave State College Pa	AD 8-6979
OW 6-3500	Wilke June	Ext Home Econ	See Code 32 Pg 3	425 W Union St West Chester Pa	OW 6-4363
UN 5-6421	*Winter William P	Res Asst Agri Biochem	303 Frear Lab	112 E Hamilton Ave State College	AD 8-2928
UN 5-6381	Wolff George A	Instr Lib Arts	204 Sparks Bl		
PR 2-8412	Wood Alice M	Ext Home Econ	See Code 41 Pg 3	102 Center St Apt 3 Ridgway Pa	PR 2-7285
UN 5-6597	*Yates Edward D	Instr Spec Journ Lib Arts	115 Carnegie Bl		

Automation in Library

OVER a period of some years, Penn State's library system hopes to adopt many of the automation techniques industry has used for a decade or more to save labor, time, and money in its operations.

A research and development operation has been initiated, with Thomas L. Minder, librarian of the College of Engineering, as head, with the view of studying the usefulness of industrial control methods in the various departments of the library.

"Curiously enough," Minder says, "even though some of these techniques now seem fairly obvious to us after a preliminary look at the picture, Penn State would be a leader in the library field by adopting these methods now."

"Of all the college and university libraries that I know of, and for that matter such others as the Library of Congress, only the Navy Pier Division of the University of Illinois has a plan for extensive use of automated equipment, and particularly data processing types, in its operations."

"A few colleges now are automated in certain sections, but on a very limited scale. We will have to be experimenters in the field."

The first steps toward automation will be the study of methods of using digital computers and other data processing machinery to reduce the routine clerical work in the library, to improve service and cut costs.

"For example," Minder explains, "we spend many clerical man-hours daily on checking whether various books are on reserve, of which there are currently 25,000. It would seem fairly simple to develop a system to inform the potential borrower at the card catalogue file that the book is on reserve rather than requiring him to go to the circulation desk, as he must do now, taking both his time and that of the clerk."

A second use of data processing methods, one which also appears practicable in the near future, has to do with periodical cataloguing. At present, the only complete list of periodical holdings is maintained in the Central Serials Record, available to the public only on a very limited basis. With relatively simple equipment a complete catalogue, up to date, could be provided all the branch libraries overnight. Many readers would thus be apprised of the existence of the periodical on the campus very soon after receipt.

The potential advantages of the use of data processing and other automating equipment appear to be the reduction of clerical work by profes-

sional librarians (a real bugaboo to head librarians today); improved service in many areas; better use of materials; elimination of many clerical errors; and lower relative costs.

"Our library is currently a million dollar business," Minder says, "and at the rate information is being published we will have neither the personnel nor the time to cope with the demands in the near future unless we get some kind of mechanical help."

LIBRARIANS NEEDED

"It is expected, for example, that by 1970 some 80,000 professional librarians would be required in this country but only 60,000 would be available."

"By taking much of the clerical work they are now required to do off of their hands, they could be released to spend more of their time on meaningful decisions."

Minder points out that some of the present library problems exist because many of the clerical staff members remain in their jobs for only a year and there is a continual retraining process going on, taking some of the professional librarian's time and making for more inefficiency and more errors.

A second problem to be attacked is that of improved service to the people who use the library, in terms of time and availability of materials. For example, it would be feasible to set up a subject matter file on a book which might include 20 subjects or more, whereas the present practice is to limit the number of subjects under which a book is listed.

"The advantage to the researcher is obvious," Minder says. "He would not have to spend nearly as much time at the card catalogue and he would be better informed on the materials available which are pertinent to his study."

One of the slower processes in any library is the obtaining of new books, a process which Minder feels certain can be automated to considerable advantage. In the ordering, accounting, and, to a certain extent, the cata-

loguing steps of getting a book into use, considerable clerical help is currently needed which could be eliminated.

Looking beyond the immediate problems, Minder foresees a use of data processing equipment which would extend the usefulness of the library manyfold: the storage and retrieval of information in all types of publications.

SPECIALIZATION

"No one library could ever hope to automate to the extent of storing all knowledge in all fields; libraries such as ours would be expected to specialize in a certain area of knowledge."

"Projects of this kind will require a great amount of initial research and we won't attempt anything of the sort until we have become more mature in the use of equipment and data processing. At the present time the equipment isn't available to do the job anyhow but it might well be by the time we are ready for it."

One of the interesting possibilities in the near future is the service to faculty members of informing them about the latest books and other publications in fields of their interest.

"The faculty member would simply indicate, perhaps by a number, the various interests he has," Minder describes. "For example, a sociologist may indicate he is interested in studies on integration, population trends, and employment data. When publications relating to these subjects are catalogued, the subject matter indexing system would automatically prepare a notation that Professor Jones should be informed the publications are on hand."

"The best we can do today is give the faculty members a list of all recent acquisitions and the subject isn't pinpointed for him."

Minder believes that Penn State will be a leader in the field because of the outstanding data processing organization already in existence on the campus. He hopes to obtain three pieces of equipment very soon for use by the library personnel—card punching, card printing, and sorting machines—but will rely on the computers and other equipment in Old Main and Boucke Buildings for the other necessary operations.

The title of the new operation is very apt, however. He expects there will have to be much research before there is development simply because the Library has little prior experience to go on.

CALENDAR

FRIDAY, NOVEMBER 9

Artists Series, 8:30 p.m., Schwab. Dame Judith Anderson, in "Medea, and "Lady MacBeth."
Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

SATURDAY, NOVEMBER 10

Hillel Foundation cultural series, 8 p.m., Film, the Yiddish classic, "The Cantor's Son," with Moishe Oysher.

Football, vs. West Virginia, 1:30 p.m., Beaver Stadium.
Artists Series, 8:30 p.m., Schwab Auditorium. Dame Judith Anderson in "Medea" and "Lady MacBeth."

University Christian Association Faculty Forum, 8 p.m., Memorial Lounge, Helen Eakin Eisenhower Chapel. Dr. Ellen Rees, on "Christian Witness in International Affairs."

SUNDAY, NOVEMBER 11

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Ellen Rees, on "Freedom from Housing."

MONDAY, NOVEMBER 12

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Genevieve Dilts, associate director of the University Christian Association, on "Bullock Carls and Buses."

English Colloquium, 7:30 p.m., Nittany Lion Inn. John Barnes, on Joseph Furphy, Australian novelist.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. H. E. Shull, instructor, on "Hypo-Elasticity."

Four films, showing sponsored by department of architecture, 7:30 p.m., Room 322 Sackett.

TUESDAY, NOVEMBER 13

Metalurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. Arthur Graham, on "Mechanical Properties and Structure of Electroless Nickel Deposits."

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. T. C. Peivy, Potomac Edison Co., on "Power Switching Systems Problems."

Plant Science Club meeting, Room 111 Tyson, 7:30 p.m., The Rev. Quentin L. Schmitt, director of the Penn State Catholic Center, on "The Educational Program in Pennsylvania."

Phi Delta Kappa Supper Seminar, 5:15 p.m., HUB dining room "A." Dr. Harold E. Mittel, assistant dean, College of Education, on "A Generalized Scheme for Research in Teacher Effectiveness."

American Society for Metals, Penn State chapter, open meeting, 7:30 p.m., Room 121 Mineral Industries. J. G. Kaufman, Alcoa Research Laboratories, on "Aluminum and Grogencies."

THURSDAY, NOVEMBER 15

University Theatre production of "The Rivals," by Richard Brinsley Sheridan, 8 p.m., Schwab Auditorium.

Mathematics Colloquium, 4 p.m., Room 110 Osmond. Lars V. Ahlfors, Harvard University.

Mining Seminar, 4 p.m., Room 304 Mineral Industries. Charles Haynes, on "Foam Generation for Fighting Mine Fires."

International Film, 3, 7, and 9 p.m., HUB assembly room. "The Golden Age of Comedy."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. P. B. Weiss, Socony-Mobil Oil Co., on "Multi-Step Catalytic Processes."

FRIDAY, NOVEMBER 16

University Theatre production of "The Rivals," 8 p.m., Schwab Auditorium.
Interlandia Folk Dances, 7:30 p.m., Room 105 White.

Books

Brant Shoemaker, assistant professor of English, Ogontz Campus, has had a book of poetry titled "The Peacock Lady" published by Vantage Press. A previous volume of war and postwar poems was titled "Taps and Other Poems." It received high praise from critics like Louis Untermeyer.

In the spring of 1962 he conducted a television course in poetry, "The Enjoyment and Writing of Poetry," on the University of the Air Series broadcast by WFIL-TV, Philadelphia.

PERSONNEL MATTERS

Paul H. West, associate professor of English at Memorial University, Newfoundland, is visiting associate professor of English. Author of eight books, 75 essays and other articles in journals, West has done research in the Romantics, Victorians, and 20th century writing, especially in comparative literature.

Hilda F. Duncan, who was graduate assistant at Penn State in 1955-56 and taught in Rahway, N. J., high school from 1953 to 1955, has been appointed instructor in mathematics.

Dr. Michael R. Cannon, who retired as professor of chemical engineering in 1960, died Nov. 1 at the age of 55. He was a member of the faculty from 1931 until his retirement.

Freshman aid

High school seniors making application for admission to the University are now provided with information concerning the various scholarship and loan programs available to them. Formerly this type of information was sent separately and on specific request. Faculty members now being asked by prospective students about these aids may inform them of the new procedures.

ENROLLMENT

In the tabulation of enrollment statistics in the Faculty Bulletin, the data for the curriculum in Mathematics was omitted from the College of the Liberal Arts statistics.

The data is as follows: first three terms, none enrolled; Fourth Term, 24; Fifth, 5; Sixth, 5; Seventh, 13; Eighth, 10; Ninth, 10; Tenth, 6; Eleventh, 7; and Twelfth, 4; total of 84. All other totals are correct.

TELEVISION LISTINGS

WFBC-TV, Altoona, Channel 10
Second Chair, Monday-Friday, 9 a.m.
Key to the Cupboard, Saturday, 8:30 a.m.
Farm, Home and Garden, Monday-Friday, 1 p.m.

DIRECTORY

The directory information provided in the following pages includes the names of those omitted from the printed faculty-staff telephone directory issued recently. It includes only those who were on the salary payroll as of Sept. 12. It does not include, in the interest of saving space, the names of clerical personnel who might have otherwise been included.

Wherever home addresses are not indicated, information was not available concerning a local address.

Art show—

(Continued from page one)

cialist in the Division of Academic Research and Services.

One of the models to be displayed by Dr. Cataldo was commissioned for the Sheraton-Palace Hotel in San Francisco and was developed into an 8 foot by 27 foot divider screen. A second model was developed as a fraternal symbol for the new Lithuanian Social Club in DuBois.

Dr. Cataldo has received many awards in sculpture, printmaking, and the crafts and his work has been exhibited in the Municipal Art Museum of Long Beach, Calif., Teachers College of Columbia University, the Museum of Contemporary Crafts, and the Albright Art Gallery. He has taught at the University of Missouri, Long Beach State College, State University of New York, College of Education at Buffalo, Columbia University, and Carnegie Institute of Technology. He was recently appointed editor of "School Arts Magazine."

George Pappas, who received his doctor of education degree at Penn State, has had one-man shows at Massachusetts Institute of Technology; Edinboro State College; deCordova Museum, Lincoln, Massachusetts; Kameg's Gallery, Boston; and at Penn State. He has been in many national exhibitions, including the Corcoran Biennial, Des Moines Art Center, Boston Arts Festival, and Philadelphia Academy of Arts. He has taught in the Massachusetts Public Schools and Iowa State College.

Marilyn Pappas has had one-man exhibits of wall hangings at Edinboro State College and Penn State. Her work has also been exhibited nationally in the Wichita Decorative

(Continued on page six)

NAME	TITLE	OFFICE ADDRESS	HOME ADDRESS	HOME
UN 5-7517	*Ackerman William F	Int Comm Sect Hd Pub Inf	309 Old Main Bl	AD 7-2865
UN 5-7101	Albert Helen M	Instl Hotel & Inst Adm	19C Home Econ Bl	
UN 5-2201	*Albright Boyd S	Supt Pount Farm	Poultry Plant	AD 7-4197
UN 5-4942	Allan Richard	Asst Food Prod Supv	117 Foods Bl	HO 6-6936
UN 5-2322	Altman Harold	Assoc Prof Art	127 Temporary Bl	
UN 5-7527	Anderson Lee W	Assoc Prof Math	230 McAllister Bl	AD 8-6687
UN 5-5491	*Anderson W Paul	Instl D Sci Ext	213 Boardland Lab	AD 7-7043
UN 5-6381	*Arnold Judd B	Instl Lab Arts Engl	220 Sparks Bl	
677-8011	*Asquith Dean	Prof Entomology	See Code 88 Pg 3	677-7012
UN 5-4181	*Barney Ann W	Asst Food Supv	Atterton Hl	AD 8-3515
323-4654	Bartholne Demaris A	Asst Ext Home Econ	See Code 58 Pg 3	322-4637
UN 5-5132	*Bauer Allen H	Assoc Prof Pl Path Ext	211 Buckhout Lab	AD 7-4015
UN 5-4252	Bell Simon	Prof Rom Lang	319 Sparks Bl	AD 7-3997
UN 5-5406	Bell Helen E	Assoc Prof Home Mgt Ext	261 Home Ec South	AD 8-6613
UN 5-2527	*Bernard Jessie	Prof Soc	241 Sparks Bl	AD 7-4304
UN 5-5406	Black Samma D	Prof Emer Home Mgt Ext	263 Home Ec South	AD 7-7224
UN 5-7527	*Bollinger Richard	Assoc Prof Math	237 McAllister Bl	AD 8-3685
UN 5-6381	*Bowman John S	Prof Eng Comp	201 Sparks Bl	HO 6-6592
UN 5-7591	Braunwarth Alice	Instl Phys Educ & Ath	101 White Bl	
UN 5-2952	*Buchanan Norman D	Instl Engr Graphics	328 Hammond Bl	AD 7-7952
UN 5-7587	*Bunnell Richard M	Conf Coord Contg Educ	Conference Center	HO 6-6304
437-3569	Burger Jack A	Instl Engr	See Code 1 Pg 3	435-0554
UN 5-5132	*Burke Olie D	Prof Pl Path Ext	211 Buckhout Lab	AD 7-2464
UN 5-8391	*Cady Philip D	Res Asst Civ Engr	2607 Sackett Bl	AD 8-3215
UN 5-8601	Caldwell Eleanor	Assoc Prof Fam Hsg-Hm Art	38 Home Ec South	
UN 5-8601	*Campbell F Elizabeth	Instl Fam Hsg & H Art	38 Home Ec South	AD 8-6113
UN 5-7517	*Chanherlain Elinor W	Supv Srvy Publ Inf	309 Old Main Bl	AD 7-4064
UN 5-7501	*Clark Priscilla D	Stat Hskpg	23 Pollock Hl #1	AD 8-0659
UN 5-5132	*Cole Herbert Jr	Assoc Prof Pl Path Ext	211 Buckhout Lab	AD 8-8690
UN 5-7671	*Corman Glen S	Resident Supv	20 Graduate Cir	AD 8-2017
UN 5-7701	Dandois Joseph E	Instl El Engr	4 Elec Eng Bl	AD 8-1552
UN 5-5953	*Dean Frank W	Mainl Supv Housing	308 Simmons Hl	AD 8-6904
UN 5-4252	*De Pfeiffer Eileen	Instl Rom Lang	318 Sparks Bl	AD 7-3154
UN 5-2791	*Dutt James O	Prof Veg Gardening Ext	203 Tyson Bl	AD 8-3654
UN 5-2543	*Eakin James H	Prof Agro Ext	318B Tyson Bl	AD 7-7280
UN 5-4252	Espantoso Augusta M	Asst Prof Rom Lang	303 Sparks Bl	
UN 5-4141	*Everhart Martha H	Nurse	214 Health Center	AD 7-4489
UN 5-2172	*Evers Edward S	Food Supv Food Serv	Simmons Hl	AD 8-8083
UN 5-2161	*Fagan Edward R	Asst Prof Sec Ed	178 Education Bl	
UN 5-4081	Fatula George T	Asst Supv Fd Serv	Warnock Hl	AD 8-2619
UN 5-2545	Fehrenbach Zenda B	Asst Dir French Inst	138 Sparks Bl	AD 7-7033
UN 5-7537	Fieara Anthony J	Dir Res Coord Conf Cir	Conference Center	EL 5-9524
UN 5-6331	Fleming Mary	Adm Asst to Dean Min Ind	207 Old Main Bl	AD 8-2340
UN 5-7677	*Ford Chester W	Asst Fd Supv Fd Serv	Redifler Hl	
UN 5-7583	*Forster Kent	Prof European Hist	115 Sparks Bl	
UN 5-7822	*Free Anne R	Asst Prof Gen Home Ec	17A Home Econ Bl	AD 7-3338
UN 5-6381	*Funk G Ann	Instructor English	206 Sparks Bl	AD 8-2567
WI 4-6107	*Garver Howard H Jr	Instl Engng Eng & Arch	See Code 2 Pg 3	WI 4-6924
UN 5-5491	*Geist Wilmer P	DHIA Rec Supv Dairy Sci	9 Borland Lab	AD 7-3977
UN 5-5491	*Gilmore Herbert C	Assoe Dairy Sci Ext	8 Borland Lab	AD 8-1453
UN 5-5444	*Glass Edward D	Instl Dairy Science	103 Borland Lab	AD 8-3818
UN 5-4141	*Glassey William C	Physician	214 Health Center	AD 8-1452
UN 5-6632	*Greig J Wilson	Visiting Prof Geochem	311 Min Sei Bl	
UN 5-6641	*Grun Paul	Assoe Prof Genetics	317 Buckhout Lab	AD 7-7129
UN 5-7677	*Gusse Ursula A	Food Supv Fd Serv	Redifler Din	AD 8-0733
UN 5-2791	*Haeseler Carl W	Asst Prof Pomology Ext	104 Tyson Bl	AD 8-1358
UN 5-6337	*Hagen John P	Prof Radio Astro Elce Eng	222 Elec Eng Bl	
UN 5-6337	*Hale Leslie C	Asst Prof El Eng	213 Elec Eng Bl	
UN 5-6597	*Harrison John M	Asst Prof Journ	214 Carnegie Bl	AD 7-3274
SP 4-0899	Hartman Marilyn J	Asst Ext Home Econ	See Code 21 Pg 3	SP 5-0991
CA 6-8230	*Haskell Joanne W	Ext Home Econ	See Code 33 Pg 3	CA 6-8660
UN 5-7664	*Haugen Helen M	Asst Food Supv	Pollock Dining Hl	AD 7-2832
UN 5-5191	*Hevly William E	Instl Ph Ed & Ath	301 Recreation Bl	
UN 5-7664	*Hessley John E	Prod Asst Fd Serv	Pollock Dining Hl	NA 5-2524
UN 5-5121	*Hicks Robert Z	Instl Spch Dept	312 Sparks Bl	
UN 5-5491	*Hollinger Carl	DHIA Fieldman	9 Borland Lab	AD 8-8194
UN 5-6509	*Holtzman Robert H	Asst Prof Ed Ser	159 Chambers Bl	AD 8-8637
AN 5-2896	Homan Alton E	Asst County Agent Agr Ext	See Code 25 Pg 3	AN 5-6897
UN 5-7591	*Hungerford Helen	Instl Ph Ed & Ath	101 White Bl	AD 7-2297
UN 5-7527	*Hunter Robert P	Assoe Prof Mathematics	208 McAllister Bl	
UN 5-8638	*Hurt Charles J	Instl Mech Eng	215 Mech Eng Bl	AD 8-0046
UN 5-7822	Jacobson Margaret M	Asst Prof Home-Com Rel	19D Home Econ Bl	AD 7-4381
UN 5-5121	*Jimirro James P	Instructor Speech	312 Sparks Bl	AD 8-5122
UN 5-5121	Johnson James L	Instructor Speech	312 Sparks Bl	AD 8-3816
UN 5-6381	*Joy Neill R	Instl Libr Arts English	228 Sparks Bl	AD 8-3950
UN 5-7527	*Kasch Friedrich	Res Prof Math	225 McAllister Bl	
UN 5-5491	*Kelso Bill F	Asst Prof Dairy Sci Ext	9 Borland Lab	AD 7-3023
KI 6-3024	Kemp James C	Area 4-H Agent	See Code 68 Pg 3	PI 5-3765
UN 5-3989	*Keppeler Richard A	Assoe Prof Agri Engr	208 Agri Eng Bl	AD 8-2715
UN 5-7623	Kereher Connie Jo	Asst Food Supv Fd Serv	HUB Bl	
404 S Patterson State College Pa				
321 Corl St Apt 8 State College Pa				
R D 1 State College Pa				
Box 123 Church St Boalsburg Pa				
1169 S Atherton State College Pa				
138 Hillview State College Pa				
Arcndtsville Pa				
Entry 9 Grad Circle Univ Pk Pa				
R D 2 Clarks Summit Pa				
No 23 Orlando Apts State Coll Pa				
273 Horman Ave State College Pa				
953 O Boalsburg Rd State Col. Pa				
300 S Atherton St State College Pa				
630 N Allen St State College Pa				
546 Greendale Ave Pittsburgh 18				
193 Twigg Lane State College Pa				
134 W College Ave State College Pa				
R D 1 Penna Furnace Pa				
Box 195 Boalsburg Pa				
216 N 16th St Allentown Pa				
614 N Allen St State College Pa				
55 Sherwood St Mansfield Pa				
346 Ridge Ave State College Pa				
472 E College Ave State College				
203 Westclry Pkwy State College				
818 Old Boalsburg Rd, State Coll				
R D 1 State College Pa				
431 W Fairmount Ave State Coll				
1227 S Corner St State College Pa				
558 Glenn Road State College Pa				
4039 Chestnut St Philadelphia 4 Pa				
311 E Park Ave State College Pa				
1113 S Atherton St State College				
138 E Beaver Ave State College				
Orlando Apts 22 State College Pa				
409 W High St Bellefonte Pa				
221 S Barnard St State College				
626 Sunset Road State College Pa				
Garden House Apts State College				
205 E Fairview Ave Altoona Pa				
P O Box 68 Lemont Pa				
128 Clover Road State College Pa				
1336 Curtin St State College Pa				
938 S Sparks St State College Pa				
210 E Hamilton Ave State College				
630 W Foster Ave State College				
912 Taylor St State College Pa				
1015 O Boalsburg Rd State College				
5025 Oakview Dr Gibsonia Pa				
Robinsonwood Dr Clarion Pa				
335 Arbor Way State College Pa				
1006 Bell Ave Apt 18 State College				
Howard Pa				
611 W Beaver Ave State College				
230 Hartswick Ave State College				
418 Ridge Ave State College Pa				
Box 336 Lemont Pa				
825 S. Allen St State College				
623 W College Ave State College				
R R 13 State College Pa				
1413 Englewood St Philadelphia 11				
315 W Beaver Ave State College				

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
American Chemical Society	14,760	Surface oxygen complexes	P. L. Walker
U. S. Public Health Service	12,305	Skeletal metabolism of laying hens	Harold Schraer
ibid.	13,800	Voltammetry of oxygen and carbon dioxide	Joseph Jordan
Commonwealth of Pennsylvania	29,500	Institutional food research and service program	Clarice Taylor
ibid.	16,360	Institutional laundry program	J. W. Krawiec
U. S. Office of Education	62,288	Effect of self-reflective training in art	K. R. Beittel
U. S. Army Chemical Center	16,900	Shielding characteristics of structures for simulated residual radiation	A. H. Foderaro
National Science Foundation	50,000	X-ray diffraction studies of minerals formed at very high pressures	Vladimir Vand & Frank Dachille
ibid.	25,000	Effect of heat and pressure on organic matter in coal seams	Russell Dutcher
ibid.	50,000	Magmatic origin for magnetite-apatite, ilmenite-hematite, and related ore deposits	Frank Dachille
St. Joseph Lead Co.	800	Cooperative program in metallurgy	O. F. Tuttle
U. S. Army	2,100	Television instruction for ROTC students	R. W. Lindsay
			C. R. Carpenter

Art show—

(Continued from page three)

Arts show, Miami Design Derby, and Young Americans Museum of Contemporary Crafts. She has taught in Massachusetts and Iowa and in College Area Schools here.

Mary Rubinstein has had painting and sculpture shown in the Texas General Exhibition, sculpture at Walker Institute, painting at the City Center of New York, wood carvings in Art, U.S.A., in Madison Square Garden, and many others. She has taught life drawing and sculpture at Penn State and has had a sculpture and drawing show at the HUB Gallery.

Edmonston, who is showing drawings and oils in the exhibit, has had many drawings published in the

Eastern Arts Association Bulletin and has shown nationally, including the annual Ball State Drawing and Small Sculpture Show in Indiana. He taught in the Campus schools at Ohio State and taught at all academic levels at Florida State University.

Shobaken, who was awarded a Fulbright Grant to France in 1953-54, has exhibited nationally in the Museum of Modern Art, San Francisco Museum, Brooklyn Museum, Philadelphia Academy, and many others. He has had purchase awards from the Brooklyn Museum, University of Minnesota, and the Minnesota Art Institute.

Slawson studied art at Syracuse University and also exhibited there. He has worked in oil, pen and ink, and pastels, but for this exhibit, which is his first formal showing of his paintings, he will display oils.

DICTIONATION

Dictating equipment is available to individual faculty and staff members through the Department of Personnel Services-Employee Relations to enable them to familiarize themselves with machine dictation.

The program of lending, at no cost, was initiated to acquaint more faculty and staff members with machine dictation, which not only solves the problem of a shortage of shorthand writers but also provides a variety of uses for efficient office operation.

Interested persons should contact R. W. Dombrowsky, UN 5-4041, for more information about the lending program.

Ag Hill party

The 13th annual Ag Hill party will be held Saturday, Nov. 17, in Recreation Building. A buffet dinner will be served at 5:30 p.m. Theme of the party this year is "Way Back When . . ."

faculty BULLETIN

Vol. 50, No. 17 Nov. 9, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor



faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

The Arts

Hector Berlioz's oratorio, "The Childhood of Christ," will be performed by the **Penn State Singers**, directed by **Raymond Brown**, the **University Symphony Orchestra**, directed by **Theodore Karhan**, and various instrumental and vocal soloists Saturday, Dec. 1, at 8 p.m. in Schwab Auditorium.

The **University Theatre** is currently presenting "The Rivals," by Richard Brinsley Sheridan. **Frank Neusbaum** is director of the 18th century comedy. Curtain time at Schwab Auditorium is 8 p.m. and shows are given tonight (Friday) and Saturday.

The next **Artists Series** program is scheduled for Wednesday, Nov. 28, and will feature **Sangeeta Madras** in music from South India. Tickets will be on sale Nov. 26 and 27.

An exhibit of the works of art by faculty and staff members living in Park Forest Village will be held at the Model Home, 1963 Norwood Lane in the Village, Saturday and Sunday, Nov. 17 and 18, from 2 to 7 p.m. Exhibitors are **John Cataldo**, **George Pappas**, **Marilyn Pappas**, **Mary Rubinstein**, **Paul Edmonston**, **Bruce Shobaken**, and **Ron Slawson**.

Dr. Leonard Raver will give an organ recital Sunday, Nov. 25, at 4 p.m. in Schwab Auditorium, assisted by the **Alard Quartet**.

Paintings of **Alfred McAdams**, design coordinator for exhibitions in the Department of State, Washington, D. C., will be exhibited in Room 105 Temporary from Nov. 19 to Dec. 6.

Faculty colloquy on modern literature

The Faculty Committee of the University Christian Association is sponsor of a colloquy on the subject, "The Disappearance of God in Modern Literature," to be held Saturday (Nov. 17) and Sunday at the Green Gables Inn, at Lewistown.

At 2 p.m. Saturday, **Dr. J. Hillis Miller**, department of English, The Johns Hopkins University, will speak on the general theme of the colloquy. He is author of *Charles Dickens: The World of His Novels* and of a forthcoming study of modern literature, *The Disappearance of God*. An open discussion of the paper will follow, moderated by **Dr. J. Mitchell Morse**, associate professor of English.

Following dinner, a panel will discuss the paper, moderated by **Dr. Maxwell H. Goldberg**, associate director of Continuing Liberal Education. Panelists will be **Dr. Frederick W. Bateson**, distinguished visiting professor of English; **Dr. H. K. Schilling**, dean of the Graduate School; **Dr. Albert G. Tsugawa**, instructor in philosophy; and the **Rev. F. Barrett Rudd**, acting director of the U.C.A.

At 10:30 a.m. Sunday, **Dr. Miller** will present a paper titled *Dylan Thomas: A Case in Point*. **John E. Haag**, instructor of English, will lead a discussion, which will be moderated by **Dr. Charles Davis**, associate professor of English.

Those interested in attending may obtain more information by calling UN 5-7627.

Teachers exams

National Teachers Examinations will be given at Penn State next February. Many school systems require applicants for teaching positions to submit results of these tests, and the examinations are intended for college seniors and practicing teachers who might make application for such positions.

Closing date for application for the tests is Jan. 18 and the tests will be administered Feb. 16.

Dr. Andrew Kozak, associate professor of education, is administrator locally.

Library hours

Pattee Library hours for Thanksgiving Day, Nov. 22, will be the same as those customarily observed. Branch libraries will observe the following hours:

Agriculture: 8 a.m. to 11 a.m.; 2 to 5 p.m.; and 7 to 10 p.m.

Chemistry-Physics: 9 a.m. to 11 p.m.

Engineering: 7:50 a.m. to 11 p.m.

Home Economics: 2 to 5 p.m.; 7 to 10 p.m.

Mineral Industries: 2 to 5 p.m.; 7 to 10 p.m.

Symposium

Dr. Eva Lueders, associate professor of German, will address The Symposium, a new discussion group of faculty members and graduate students who are interested in modernity in the arts and letters, Wednesday, Nov. 28, at 8 p.m. in the Chapel Lounge.

She will speak on "Anatomy of the Modern Lyric."

German-born and educated, **Dr. Lueders** has taught at the University of Goettingen, where she received her doctorate, at Catholic University and Stanford University in this country. She has done much research and writing in the area of German, French, Italian, and English lyric poetry and her talk will be concerned with the problems in structure and evaluation of this poetry. She has given talks and papers on the subject at Modern Language Association meetings in Philadelphia and Chicago and has lectured at the University of California and San Diego State College.

Legislation

A bill designed to stimulate programs of state and local government service training, introduced into Congress as House Bill, H.R. 13305 by **Henry B. Gonzalez** of Texas, was prepared by **Drs. John H. Ferguson** and **William R. Monat**, of the Institute of Public Administration.

Through an appropriation of \$10 million, to be distributed among states on the basis of population and income, Federal grants-in-aid would be provided to the states on a matching principle. The Bill has support from professional groups and associations of government officials.

Term suggestions

Members of the faculty having suggestions for modification of the Term System should submit them to a member of the Committee for Term System Analysis of the Senate before the next meeting Nov. 21. Members of the Committee are **Marvin E. Rosen** (UN 5-8307), **Philip S. Skell** (5-5652), **James E. Wright** (5-5093), **John R. Zimmerman** (5-2761), **Robert W. Green**, chairman (5-7583).

SENATE MINUTES

MEETING OF NOVEMBER 6, 1962

The University Senate met at 3:55 p.m. on Tuesday, November 6, 1962 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the October 2, 1962 meeting were approved as printed in the Faculty Bulletin for October 12, 1962. One hundred seventy-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Rose Cologne (Margaret Jacobson), R. C. Cunningham (C. C. DiIlio), M. R. Fenske (Dorothy Quiggle), J. J. Gibbons (R. L. Weber), W. R. Grubbs (M. E. Campbell), M. W. Isenberg (L. A. Richardson), S. L. Land (W. A. Williams), F. I. Maril (Y. G. Chomicky), D. R. McClay (N. K. Hoover), R. E. McDermott (W. E. Sopper), W. H. Powers (K. V. Manning), E. R. Queer (F. A. Joy), H. W. Sams (A. B. Sutherland), R. B. Saylor (M. E. Rozen), and C. W. Stoddart, Jr. (C. A. Morehouse).

New Senators

A letter was read from L. E. Jackson that R. A. Bartoo would replace N. D. Blackburn as an elected senator for the balance of the academic year 1962-63, in the College of Agriculture.

A letter was read from J. W. Breneman that A. H. Weedon would replace A. D. Brickman as an elected senator for the balance of the academic year 1962-63 and as of January 1, 1963 W. P. Winter will replace P. F. Hallock as an elected senator for the term 1962-1964, in the College of Engineering and Architecture.

A letter was read from H. K. Schilling that R. D. Ayoub would substitute for H. D. Zook while he is on leave, and that W. E. Meyer would replace J. J. Gibbons as an elected senator, from the Graduate School.

The following letter from Leon Gorlow regarding ROTC programs at The Pennsylvania State University was read by the secretary and referred by the President to the Senate Committees on Educational Policy and Military Instruction. The President asked the committee chairman to confer with him before presenting their recommendations to the Senate:

I am writing to you so that a matter might be placed before an appropriate Senate committee (Educational Policy?) for its early considerations and recommendations to the full body.

Although the Senate voted recently in favor of a voluntary choice for student participation in the ROTC programs, every Senator recognizes the role universities must play in assuring an adequate officer supply and acknowledges a University responsibility for military training.

I wonder, then, if the Senate would sponsor a mandatory military training orientation program for all entering freshmen. I want to suggest for consideration the proposal that every student,

upon arrival on campus be required to spend a number of hours in each of three successive weeks conferring with representatives of the three branches of our Armed Forces. What is envisaged here is that full opportunity be granted each service branch to bring its program to the attention of students by means of lectures, films, literature, group discussions, etc. It is only then that I feel a voluntary choice with respect to participation or nonparticipation would be a rational one.

Would the Senate also want to stipulate reconsideration of their recent ROTC action in x years, should experience prove that the participation of men in the advanced military programs falls below a given percentage, y, of what it was formerly?

The secretary read the following letter from Dean W. Wharton, President of the Undergraduate Student Government:

The Undergraduate Student Government commends the University Senate on its decision to recommend to President Eric A. Walker and to the University Board of Trustees that R.O.T.C. at The Pennsylvania State University be made a voluntary program.

We feel that this move was taken in the best interests of the students.

A letter from Ossian MacKenzie, Dean of the College of Business Administration, was read as follows:

At the meeting of the College of Business Administration Faculty on November 1, 1962, Mr. Rozen moved the following resolution which was seconded and adopted by the Faculty: "Resolved that the College approve and endorse the decision of the University Senate to make ROTC voluntary instead of compulsory."

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as Appendix "A." He moved the adoption of the proposals as listed under Items I A and I B which included a new Associate Degree Curriculum in Forest Technology to be implemented at the Mont Alto Commonwealth Campus for the Fall Term, 1963. The motion was seconded and passed. The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker reviewed building plans for the University for the next six years at University Park and the Commonwealth Campuses. He also discussed recent meetings he had held with the presidents of the state aided universities, and with the state colleges with whom he anticipates much closer relationship in the next few years.

The next regular meeting of the Senate will be on December 4; the agenda will be distributed on November 20, 1962. The meeting adjourned at 4:11 p.m.

Robert G. Bernreuter
Secretary

CALENDAR

FRIDAY, NOVEMBER 16

University Theatre production of "The Rivals," 8 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Room 105 White.

Mineral Industries Colloquium, 3:55 p.m., Mineral Industries Auditorium. Dr. Leszek Kosinski, Polish Academy of Science, on "Changes in the Ethnic Structure of Central Europe after World War II."

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Richard Gockrath, on "The Mutagenic effects of Decaying Tritium Compounds Incorporated into E-Coli" and Marshall Edgell, on "The Isolation of R.N.A. Complementary to Tobacco Mosaic Virus."

SATURDAY, NOVEMBER 17

University Theatre production of "The Rivals," 8 p.m., Schwab Auditorium.

Ag Hill party, Recreation Building. Buffet supper, 5:30 p.m.

SUNDAY, NOV. 18

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Harold H. Viehman, secretary, General Division of Higher Education, The United Presbyterian Church in the U.S.A., on "Gifts and Service."

Hillel Foundation Cultural Series. Film, "Hamlet," with Lawrence Olivier. 8 p.m.

MONDAY, NOVEMBER 19

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Nunzio Palladino, Nuclear Reactor.

Phi Lambda Upsilon lecture, 8 p.m., Room 152 Hammond. Dr. Howard S. Hoffman, assistant professor of psychology, on "Long Term Effects of Aversive Conditioning."

State College Color Slide Club, 7:30 p.m., Room 101 Chambers (Education). Best slides from the 1961 Anscochrome of the Year contest, Bruce Shobaken judge of monthly competition.

TUESDAY, NOVEMBER 20

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. John Weigle, on "Effect of Carbon on Certain Mechanical Properties of a Heat Treated Low Alloy Steel."

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Irma Adelman, associate professor of political economy, The Johns Hopkins University, on "The Implications of Probabilistic Approaches to Industrial Structure for Anti-Trust Legislation."

THURSDAY, NOVEMBER 22

Thanksgiving Day, offices closed.

International Film, "On the Waterfront," 3, 7, and 9 p.m., HUB assembly room. Tickets on sale Nov. 19.

FRIDAY, NOVEMBER 23

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. A. J. Zerzel, associate planner of the Northeastern Illinois Metropolitan Area Planning Committee, Chicago, on "Planning for Water Resources Development and Management in a Metropolitan Area."

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

A Thanksgiving Candlelight Dinner will be held in the HUB Terrace Room Thursday, Nov. 22. Service is from 5 to 6:45 p.m. The HUB Lions Den and Grill will be open from 8 a.m. to 9 p.m. on that day.

ITEMS OF INTEREST

The Arts

SHOBAKEN, MARLYN E., publications, graphic designs and text for current issue of "Everyday Art."

Elected and Appointed

ASPATURIAN, V. V., political science, named a research associate of the Washington Center for Foreign Policy Research.

BERGESON, C. O., education, elected secretary of the Penna. Learning Resources Association.

BIRKENMAYER, S. S., Slavic Languages, appointed Associate Bibliographer on the East European Section, Bibliography Committee, Modern Language Association.

DUBIN, S. S., psychology, named president-elect of the Division of Business and Industrial Psychology, Penna. Psychological Association.

FLETCHER, H. D., Public Safety, elected to the executive committee, School Transportation Section, National Safety Council.

HALE, E. B., animal behavior, named vice chairman of the Committee on Animal Behavior of the Ecological Society of America.

KNEEBONE, L. R., botany, elected chairman of the International Commission on Mushroom Science.

LINDSTROM, E. S., bacteriology, elected president of the Allegheny section, American Society for Microbiology.

MAGNER, T. F., Slavic languages, elected president of the Pennsylvania chapter of the American Association of Teachers of Slavic and East European Languages.

PANOFKY, H. A., meteorology, named fellow of the American Geophysical Union.

PENDERED, N. C., industrial arts education, elected secretary of the Industrial Arts Association of Pennsylvania.

REMICK, F. J., Nuclear Reactor, appointed to the Nuclear Engineering Division Papers Review Committee of the American Society of Mechanical Engineers.

SNOWDON, J. C., Ordnance Research Lab, reappointed to three-year term as member of Acoustical Society of America committee on shock and vibration.

TORKELSON, G. M., education, elected president of the Penna. Learning Resources Association.

Lectures and Talks

ASPATURIAN, V. V., political science, on U. S. foreign policy at Wooster College in program "Counter Challenge."

BEITTEL, K. R., art education, "Meeting Our Professional Responsibility" and "Research in Creativity: Implications for Teachers of Art and Science," before the East Tennessee Education Association meeting.

BIRKENMAYER, S. S., Slavic languages, "The Russian Poet N. A. Nekrasov," at the meeting of the Penna. Chapter of the American Association of Teachers of Slavic and East European Languages, at the University of Pennsylvania.

DE LACY, W. J., education, "Education Is Important" and "Paying for Better Schools Tomorrow" at the Blair County (Pa.) Schools Institute.

DEVINNEY, R. N., English, at Allentown, "The Articulate Secretary and a Path to Perfection" at the annual workshop of the Allentown Chapter of the National Secretaries Association.

EDMONSTON, PAUL, art education, on research in the classroom and on creative behavior before the discussion-workshop for art teachers at the York Area In-Service Institute.

— "Problems of Identification and Development of High Creative Potential in the Visual Arts" at the Lycoming County Public Schools Teacher Institute.

GATES, RUTH E., clothing and textiles, "Changing Concepts in Clothing and Textiles," before the Massachusetts Home Economics Association meeting.

HEIDE, E. E., New Kensington, "Your Community College" before the Rotary Club of Butler, Pa.

JORDAN, JOSEPH, chemistry, "Thermochemical Titrations and the Analytical Significance of Heats of Reaction" at the Eastern Analytical Conference of the American Chemical Society at New York.

— "Enthalpy Titrations and Thermochemistry in Molten Salts" at the Chemistry Seminar, Rutgers University.

KNOLL, MARJORIE M., home management, "Management, An Adventure," at the North Carolina Home Economics Association meeting in Asheville, N. C.

LEIBOWITZ, HERSCHEL, psychology, "The Three-Dimensional Visual Displays," at the Conference on Utilization of Multi-Parameter Analyzers in Nuclear Physics at Liberty, N. Y.

LEWINTER, OSWALD, English, "An American Poet Examines Russian Poetry Today," at the meeting of the Penna. chapter of the AATSEEL.

MCKINLEY, D. H., Business Administration, "The U. S. Economy—What Lies Ahead" at the 23rd annual convention of the Penna. chapter, International Association of Personnel in Employment Security.

MURRAY, R. K., history, "Cream, No Sugar," at an All-College Convocation at Juniata College.

O'BRIEN, H. J., speech, "The Art of Making a Speech," at the Hazleton Campus.

PASHEK, R. D., business administration, "New Approaches in Education for Transportation Management" at a one-day educational workshop at the annual meeting of Delta Nu Alpha.

RATHMELL, J. K., JR., floriculture extension, moderator of all meetings of the European Carnation Conference of the American Carnation Society held in Denmark, Sweden, Holland, France, and England from Sept. 14 to Oct. 1.

SOMMER, L. H., chemistry, "Stereochemistry of Silicon" before the research department of Dow Corning Corp. at Midland, Michigan; also at a colloquium at Duquesne University, Pittsburgh.

TAFT, R. W., chemistry, on the application of fluorine nuclear magnetic resonance to problems of chemical reactivity, in the Northwestern University series on advances in theoretical organic chemistry. — a talk before the Chemistry colloquium at the Illinois Institute of Technology.

WILLOWER, D. J., educational services, "New Concepts in Educational Administration" at the annual conference of the Associated Public School Systems at Teachers College, Columbia University.

Articles and Papers

At the 64th meeting of the Acoustical Society of America, papers by the following members of the Ordnance Research Laboratory: BEAM, JOHN P.; BLAND, R. E.; DRONFY, B. E.; MCCORMICK, J. R.; LAWRIER, J. M.; ROWLANDS, R. O.; SKUDRZYK, E. J.; and SNOWDON, J. C.

ASPATURIAN, V. V., political science, chapter for the book, "The Revolution in World Politics" on the subject, "The Challenge of Soviet Foreign Policy."

— chapter for the book, "Neutrality and Non-Alignment" on "Strategies of the Status Quo and Revolutionary Change in Underdeveloped Countries."

ASQUITH, DEAN, Arendtsville, "Cross Resistance to Acaricides in European Red Mite," in the October issue of *Journal of Economic Entomology*.

BLAND, R. E. and SEVICK, MAURICE, Ordnance Research Laboratory, "An Experimental Approach to Submarine Noise Control" at the 20th Navy Symposium on Underwater Acoustics at San Diego, Calif.

CONDEE, R. W., Continuing Liberal Education, "A Case in Point: Bedlam at Edinburgh" in the Oct. 11 issue of *The Reporter*.

DRAPER, A. B., industrial engineering, "Analytic Approach to Die Venting" at the Technical Congress of the Society of Die Casting Engineers.

EISENHUTH, J. J., Ordnance Research Lab, with McCormick, B. W., aeronautical engineering, "The Design and Performance of Propellers and Pumpjets for Underwater Propulsion" at the 17th annual meeting and Space Flight Exposition of the American Rocket Society at Los Angeles.

GLANTZ, P. J., veterinary science, "In Vitro Sensitivity of *Escherichia Coli* to Antibiotics and Nitrofurans" in the October issue of *Cornell Veterinarian*.

GUERRANT, N. B., biological chemistry, "Efficiency of Antibiotics in Supplementing the Growth Rate of Beta Carotene in Vitamin A Depleted Rats," in the 1962 *Proceedings of the Society for Experimental Biology and Medicine*.

KUSPIR, D. B., philosophy, "Charles Dana Gibson's Girl," in the *Jahrbuch fuer Amerikastudien*, Vol. 7.

LINDSAY, R. W., metallurgy, with Benford, J. G., "The Importance of Penultimate Grain Size and Solid Solution Impurities in Secondary Recrystallization in Iron-Nickel Alloys," at the Eighth Annual Conference on Magnetism and Magnetic Materials, in Pittsburgh.

MCCARDLE, F. J., horticulture, with D. Curwen, "Factors Influencing Shrinkage of Mushrooms during Processing," at the International Mushroom Congress in Philadelphia.

MCCORMICK, R. H., BARTON, PAUL, and FENSKE, M. R., chemical engineering, "Six-Stage Vapor Vapor-Liquid Equilibrium Unit," in *American Institute of Chemical Engineers, Journal* 8, No. 3, 1962.

PERSONNEL MATTERS

Dr. Robert C. Burkhart, associate professor of art at Central Michigan University, has been named research associate in art education. A graduate of Colby College, he was granted the master of arts degree by the University of Pittsburgh in 1953 and doctor of education with major in art education by Penn State in 1957. He has also taught art in Pittsburgh schools.

Dr. Jose Luis Amoros, professor of crystallography and head of the department of crystal physics at the University of Madrid, has been appointed visiting professor of physics and acting assistant director of the Crystal Research Laboratory. He has been actively engaged in research on crystallography since 1943 and has been a member of the faculties of the Universities of Barcelona, Sevilla, and Madrid in the interim.

Dr. James E. Wright, professor of genetics, will be on leave from Jan. 1 to June 30, 1963, to serve as guest professor of genetics in the department of agronomy at Purdue University. He will also visit various genetics laboratories throughout the Midwest.

NSF Fellowships

National Science Foundation Postdoctoral Fellowships for study and/or research are available to faculty members in the following areas: biological, engineering, mathematical, medical, and physical sciences; anthropology; economics (not including business administration); geography; history and philosophy of science; psychology (excluding clinical); and sociology (not including so-

cial work). Also, interdisciplinary fields of geochemistry, meteorology.

The fellowships are available to citizens and nationals of the United States who will have earned the doctorate or have had research training equivalent to the doctorate and who have demonstrated ability and special aptitude for advanced training in the sciences.

About 165 fellowships will be awarded March 15, 1963 for a full-time scientific study and/or research at the postdoctoral level for tenure periods of six months to two years, beginning within one year.

Annual stipend is \$5,000 plus \$500 allowance for each dependent, with limited cost of travel and research expense allowances. Office cards used to obtain application materials are available at the Graduate School Office, 101 Willard. The cards must be submitted to the Fellowship Office, National Academy of Sciences-National Research Council, Washington 25, D. C., in order to obtain application materials.

Summer Fellowships

Outstanding graduate students who have been teaching assistants during one academic year may be eligible for a summer fellowship to be awarded by the National Science Foundation for 1963. Faculty members are urged to call this program to the attention of such students.

The program enables the academic year teaching assistant to devote full time to his studies and research during the summer months and thus advance the attainment of the higher degree.

About 1,000 such fellowships will be awarded for 1963, in the following fields: biological, engineering, mathematical, medical, and physical science; anthropology, economics, geography, history and philosophy of science, psychology, and sociology, geochemistry, meteorology, and oceanography.

The student should obtain a note of approval from the department of his major, then secure application materials from the Graduate School Office, 101 Willard. The applications must be returned to the Office by Dec. 7.

Fellowships may be given for from eight to 12 weeks, carry a stipend of \$50 to \$85 per week, and the Foundation pays the tuition.

Sewage research

The State Sanitary Board has issued a permit for construction by the University of a pumping station and pipe line which will make it possible to carry out research programs in handling of sewage plant effluent that may have far-reaching effects.

The studies and demonstrations will be concerned with the use of effluent in treatment of forest and agronomic crops and also the disposal of the effluent through certain sand and clay soils.

Land-grant meetings

President Walker and 19 other University staff members served as delegates this week at the meetings of the American Association of Land-Grant Colleges and State Universities in Washington, D. C.

From the College of Agriculture were Dean Lyman E. Jackson, Dr. M. A. Farrell, Dr. Russell E. Larson, Dr. R. B. Dickerson, Dr. Alfred L. Bortree, and Dr. William M. Smith, Jr.

From the College of Engineering and Architecture were Dean M. A. Williamson, Paul Ebaugh, Robert E. McCord, and Dr. A. T. Thompson.

From the College of Home Economics, Dean Grace M. Henderson, Dorothy Houghton, Edna E. Sommerfeld, Delpha Wiesendanger, Alida Hotchkiss.

Also E. L. Keller, director of Continuing Education; Dr. Harold K. Schilling, dean of the Graduate School; Dr. Richard Jahns, dean of the College of Mineral Industries; and Dr. Ben Euwema, dean of the College of the Liberal Arts.

faculty BULLETIN

Vol. 50, No. 18 Nov. 16, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

PERSONNEL MATTERS

Dr. Samuel B. Guss, professor of veterinary science extension, is on leave until May to study mastitis and internal parasites in cattle in New Zealand and Australia.

James J. Leach has been appointed instructor in philosophy and his wife, Phyllis G., has been named instructor in political science. Both have been instructors at Flint Community College, Flint, Mich., since 1957. He is a graduate of Heidelberg College, Tiffin, Ohio, with a master of arts degree from Trinity University. She is a graduate of Heidelberg also and received her master of arts degree from the University of Chicago.

David C. Beppler, assistant professor of agricultural engineering, will be on leave for the Winter Term to begin studies for a doctorate degree in mechanical engineering.

Dr. Lester P. Guest, professor of psychology, will be on leave from Jan. 1 to June 30. He plans to coordinate and write the results of a four-year study of the development and modification of attitudes, the research having been sponsored by grants from E. I. duPont de Nemours and Co. and other groups.

Dr. Gordon F. Whitmore, research physicist from the Ontario Cancer Institute, Toronto, is visiting associate professor of biophysics, teaching a course on "Radiobiology of Mammalian Cells." He has conducted much research on radiation physics as applied to cancer therapy.

Christmas sing

The 33rd annual Christmas Sing sponsored by the department of German will be held Thursday, Nov. 29, at 7 p.m. in Schwab Auditorium.

George J. Wurfl, professor emeritus of German, inaugurated the program in 1930 and as in the past the singing of familiar carols by the audience will feature the program.

Robert L. Beare will give a short talk on "Christmas In Tuebingen" and Werner F. Striedieck will read the St. Luke's version of the Nativity story.

George E. Ceiga, University organist, will open the program with Karg-Elert's prelude, Improvisation in "In Dulce Jubilo." Raymond Page, viola, Overda Page, flute, and Edwin Gamble, at the piano, will play Handel's Sonata No. 1 which has been specially arranged by Gamble for the viola and flute. Mrs. Lorine Buffington, accompanied by Gamble, will sing three airs by Bach.

Postdoctoral associates

Awards will be made April 1, 1963 by the National Academy of Sciences-National Research Council of appointments of Postdoctoral Resident Research Associateships in the basic and applied natural sciences for the 1963-64 academic year.

Application deadline in most fields is Feb. 1, 1963.

The appointments are made for the development of creative abilities and advanced education of young investigators of unusual promise. The stipend is \$9,475.

The list of some 50 fields and the laboratories at which each field is available can be obtained at the Graduate School Office, 101 Willard. Additional information and application materials are available at The Fellowship Office, National Academy of Sciences, National Research Council, 2101 Constitution Ave., Washington, D. C. The field of interest should be stated.

TV program aired

The University-produced program, "Key to the Cupboard," which is seen weekly over WFBG-TV, will also be shown on WQED, Channel 13, in Pittsburgh beginning Monday, Dec. 10, at 5 p.m. The station is the educational-television facility in Pittsburgh.

Dr. Edward Mattil, head of the art education department, is featured in the program.

The Arts

Dr. Leonard Raver, Chapel organist, with the Alard String Quartet, will present a concert Sunday, Nov. 25, at 4 p.m. in Schwab Auditorium.

The program will include the following:

Fugue a la Gigue in C Major by Buxtehude.

Prelude and Fugue in E Major, by Bruhns. Benedictus, by Francois Couperin le Grand.

Voluntary, Op. 6, No. 6, by John Stanley.

Fantasia and Fugue in G Minor, by Bach.

Partita for violin, viola, and organ, by Walter Piston, with Donald Hopkins, violinist, and Raymond Page, violist.

Variations on "America" for organ solo, by Charles Ives.

Sonata No. 2 for organ and string quartet, by Daniel Pinkham.

The Alard String Quartet is composed by Hopkins and Joanne Zagst, violinists, Page, and Leonard Feldman, cellist.

Tickets for the Artists Series program by Sangeeta Madras, in Songs of India, will go on sale Monday, Nov. 26, at the HUB desk. The program will be given Wednesday, Nov. 28, at 8:30 p.m., in Schwab.

The special program by the Penn State Singers and the University Symphony Orchestra, performing the Berlioz work, "Childhood of Christ," will be given Saturday, Dec. 1, at 8 p.m. in Schwab.

Exhibits

Ceramic works of William Paul Daley, of the industrial design department of the Philadelphia Museum School, are now on display in the gallery area of the Chambers Building on north campus. Mr. Daley has exhibited widely and has won many prizes in ceramics. One of his pieces was exhibited in the American pavilion of the Brussels Fair and a ceramic divider unit for I.B.M. was installed at the Seattle World's Fair.

An exhibition of work by students in architecture is on display at the gallery in Room 300, Sackett Building and will remain until Dec. 7. The display is of work done in freshman basic design course and emphasizes an approach to the beginning of an understanding of architecture. The exhibit is titled, "Space as a Raw Material."

The paintings of Alfred McAdams, currently on display in Room 105 Temporary, will continue on exhibit until Dec. 6. Mr. McAdams is coordinator and designer for a departmental program of exhibits at the

(Continued on page four)

Study Abroad Program grows

About 120 students will represent Penn State in Europe during the 1963 Spring Term through the Study Abroad Program developed by the College of the Liberal Arts and initiated the past spring.

To the programs of study already established at the Universities of Cologne, Germany, and Strasbourg, France, are to be added a similar opportunity at the University of Salamanca, Spain, and a special program for 18 senior architecture students in England.

"The students who went abroad under this program last year were wonderful ambassadors, says Dr. Ben Euwema, dean of the College of the Liberal Arts. "The university people at Cologne and Strasbourg were anxious to have more Penn State students and were enthusiastic about the first year's results.

"The faculty members were particularly impressed by the students' willingness to work and their grasp of ideas and concepts."

Penn State's unique academic program was also favorably received, although it placed an extra burden on the universities and required special attention. Most American universi-

ties emphasize language proficiency in the study abroad; Penn State's program is aimed at providing an advanced level of study in the social, economic, and political areas of the country without sacrificing any sound academic standards by reason of language emphasis. The program, of ten weeks, is given in English (except for a specific language course) so that the student can give all his attention to the subject and can understand the difficult concepts unhindered by language handicaps.

Both the Cologne and Strasbourg institutions offer distinguished faculties and excellent opportunities for development outside the classroom. So, also, will the University of Salamanca and the Architectural Asso-

ciation School of Architecture in London, England, next year.

"Salamanca is typically Spanish," says Dr. Dagobert deLevie, director of the Study Abroad Program, "and the city is an historical monument in itself. The University has about 5,000 students and the city a population of 100,000."

The Association School, in London, which the architecture students will attend, affords an unusual opportunity, according to Philip F. Hallock, acting head of the department of architecture, in that outstanding members of the Association are the teachers, making available a faculty of the highest reputation in England. Also, in London the students will see an approach to design not available here, with both historic and contemporary buildings easily accessible.

Personal observation

Aside from the formal classroom experiences, the Study Abroad Program gives the students opportunities for close, personal observation of the tremendous changes occurring in Europe now. At Cologne all the students lived in the homes of German families, with excellent results in gaining for them a clearer picture of the Germany of today.

A highly significant reason for the Cologne success was the well organized series of field trips to museums and churches: to study art treasures of medieval and Roman Cologne; to visit the Bundeswehr in Bonn in order to learn about the structure of the German army and its integration into NATO; to see the Bonn Parliament in action; to investigate the Commission of the European Economic Community in Brussels, the European Coal and Steel Community meeting in Luxembourg, and the Cologne school system. Students at Strasbourg attended the meetings of the Common Market and visited many art museums and galleries in France.

The basic program at both universities—and this will apply also to Salamanca—included courses in sociology and political science, the language of the country, and a course of special significance at the particular university. In the case of Cologne, theatre arts was selected because the University is world famous for its work in the theatre.

There are also many opportunities for the students to go out on their own to observe Europe. Travel is relatively inexpensive and there is much to see within a short distance of each of the universities. Generally,



An unusual experience for the Study Abroad group last year was the party at the home of U. S. Ambassador Walter Dowling in honor of the students. The party was attended also by many people of the diplomatic corps and was in addition to the formal reception the Ambassador had accorded the students when they first arrived in Germany.

too, the students were able to make their way easily, although a number of students expressed the need to have a greater facility in conversational German or French.

Great skill in the language is not a prerequisite of enrollment in the program, although all students must have had at least two years, or equivalent, of training. Neither is language development a major goal, because the special committee of the College of the Liberal Arts which developed the program proposed to emphasize the social, economic, humanistic, and artistic potentialities of the program rather than the specifically linguistic aspects.

The Study Abroad Program may prove to be a two-way road soon, Dean Euwema indicates. Officials at both Cologne and Strasbourg are working toward a plan to send some of their students here for a period of study, perhaps for a term, perhaps for a full year.

"The advantages to Penn State are obvious," Dean Euwema says. "It would increase the cosmopolitanism of the campus tremendously and also strengthen the University's reputation in Europe.

"Many American universities are currently attempting to develop European study programs and it is encouraging that the universities we have worked with to date are willing to do as much as they have for us. In truth, some universities are unwilling to take on any more foreign stu-

dents, for they have the very same problem of overcrowding we have."

Student reaction to the program last spring was very enthusiastic with only minor reservations. Students felt, generally, that they should be somewhat better prepared in the language but agree that requiring a high degree of language competence would impose a serious limitation. Some liked living with German or French families, others did not; apparently the reaction had much to do with the family and the adjustment of the student to the different living conditions in Europe. Some felt that their instructors in specific courses assumed too much, but with only a few exceptions they were high in their praise of the teaching. A fairly common criticism was the lack of contact with German students in Cologne and to a lesser extent with the French students at Strasbourg. Since in some cases the homes were some distance from the university, the difficulty of obtaining social contacts with students and obtaining a picture of the family life was obvious. Ideally, experiences with both would be desirable.

Architecture

The architectural program in London next spring is not in the same format as those at the other universities. The students, 17 men and one woman, are eligible because they are members of a specific class and curriculum, which is not true in the oth-

er programs. However, in many respects the objectives are similar to those of the regular Study Abroad Program, especially so in the fact that the courses are similarly planned and arranged. In addition, the students will spend only eight weeks in London and will have two weeks for further study in Rome and Paris.

The committee which has planned the programs includes, in addition to Dr. deLevie, its chairman, Dean R. C. Maloney, Drs. R. Wallace Brewster, Cortland Eyer, Kent Forster, E. H. Freund, Luther H. Harshbarger, H. L. Krall, Margaret B. Matson, and W. Lamarr Kopp. It has met regularly for many months to develop policy and to iron out details of the program in an effort to avoid many of the errors other universities have made in setting up such programs.

"The initial success of the program is a reflection of the committee's hard work and of the direction given the students by Dr. deLevie and Dr. Margaret Matson who accompanied them.

"But we must also give credit to the students who went; they were good salesmen for Penn State. I have only recently returned from Europe making arrangements for next year and I came back with the conviction that our students have helped their European counterparts to understand Americans better wherever they went."

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
U. S. Air Force	45,351	Acoustical measurements method of studying physical properties	E. J. Skudrzyk
National Science Foundation	173,700	Academic Year Institute in mathematics	T. C. Benton
Cooperative GLF Exchange	500	Corn diseases	A. R. Grove
Public Health Service	370	PHS fellowship supply grant	H. Leibowitz
Timbuck Co.	5,000	Development of a type of mushroom	A. R. Grove
Sprague Electric Co.	500	Fellowship in ceramic dielectrics	W. R. Buessem
Penna. Dept. of Agriculture	500	Oak wilt research	C. L. Fergus
Pittsburgh Plate Glass Co.	900	Purchase of temperature measuring equipment	Guy Rindone
National Science Foundation	27,300	Interaction of oxidizing gases with carbon surfaces	P. L. Walker
ibid.	19,000	Topological semi-groups	L. W. Anderson
U. S. Air Force	19,200	Isotopically substituted fluids	W. A. Steele
Sun Oil Co.	2,000	Research in chemical engineering	M. R. Fenske
Penna. Retail Florists	200	Research in floriculture	P. B. Pfahl
Penna. Christmas Tree Growers Assn.	400	Research on Christmas trees	R. E. McDermott
U. S. Air Force	15,182	Transient thermal stresses in solids	Walter Januszewski
ibid.	17,671	Metals under high pressure	L. W. Hu
N.A.S.A.	74,969	Physics of cellular synthesis	E. C. Pollard
Atomic Energy Commission	52,800	Dynamic properties of high polymers	J. A. Sauer
U. S. Navy Dept	290,000	Operation of Ordnance Research Lab	J. C. Johnson
Cooperative G.L.F.	3,600	Waste disposal equipment	H. D. Bartlett

CALENDAR

FRIDAY, NOVEMBER 23

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. A. J. Zerzel, associate planner of the Northeastern Illinois Metropolitan Area Planning Committee, Chicago, on "Planning for Water Resources Development and Management in a Metropolitan Area."

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

SATURDAY, NOVEMBER 24

Hillel Foundation Cultural Series. Film, "The Golem," Yiddish classic, 8 p.m.

SUNDAY, NOVEMBER 25

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, assistant University chaplain, on "A Peculiar People."

Recital by Dr. Leonard Raver, Chapel organist, with the Alard String Quartet, 4 p.m., Schwab Auditorium.

MONDAY, NOVEMBER 26

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Ben Whisler, civil engineering department head, on "Zanzibar."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics. Janet M. Wardlaw, on "The Effects of High and Low Dietary Sodium Levels on the Pregnant Rat."

TUESDAY, NOVEMBER 27

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 112 Buckhout. Dr. Paul C. Cross, director of research, Mellon Institute, on "High Resolution Infrared Spectroscopy."

Metallurgy Seminar, 2:20 p.m., Room 121 Mineral Industries. Donald Lundy, on "Stress Corrosion Cracking of a Hardenable Stainless Steel."

Social Science Research Center annual fall meeting, 3:55 p.m., Room 121 Sparks.

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Donald Moore, Ohio Edison Co., on "Power Systems Short Circuit Calculations."

WEDNESDAY, NOVEMBER 28

Artists Series program by Sangeeta Madras, in Songs of India, 8:30 p.m., Schwab Auditorium.

Symposium, discussion of modernity in arts and letters, 8 p.m., Chapel lounge. Dr. Eva Lueders, associate professor of German, on "Anatomy of the Modern Lyric."

THURSDAY, NOVEMBER 29

Psychology Colloquium, 8 p.m., Room 111 Boucke. Dr. Raymond A. Katzell, director of the Research Center for Industrial Behavior, New York University, on the "Research on the Construct of Morale."

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Joseph Conway, on "Stress Distribution in Cylinder under Static Load."

International Film Committee showing of "Rasho Mon," 3, 7, and 9 p.m., HUB assembly room. Tickets on sale Nov. 26.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Irving Shain, University of Wisconsin, on "Methods of Investigating the Rates of Organic Electrode Reactions."

FRIDAY, NOVEMBER 30

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Dr. Eugene Lindstrom, assistant professor of bacteriology, on "Energy Relationships in Bacterial Photosynthesis."

Interlandia Folk Dances, 7:30 p.m., Room 105 White.

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

TELEVISION LISTINGS

WFBG-TV, Altoona, Channel 10

Second Chair, Monday-Friday, 9 a.m.

Key to the Cupboard, Saturday, 8:30 a.m.

Farm, Home and Garden, Monday-Friday, 1 p.m.

EXHIBITS —

(Continued from page one)

Department of State in Washington, D. C., with which he has been associated since 1947. He has taught at George Washington University, Corcoran School of Art, and University of Minnesota. He has had shows in many galleries and has shown in regional exhibits in the Washington area for 25 years.

The exhibit of the art works of 11-year old Senaka Senanayake, of Ceylon, will continue in the mezzanine gallery of the Chambers Building until Tuesday.

Extension film

A film titled "Extension's Golden Harvest" produced by William H. Folwell, agricultural extension television editor, will be shown on WJAC-TV, Johnstown, Dec. 1 from 4 to 4:30 p.m. and on WFBG-TV, Altoona, Dec. 8 from 2:30 to 3 p.m.

The film is a picture-story of 50 years of Cooperative Extension work in the Commonwealth. It includes photos of early agricultural efforts with a comparison of present-day methods. It is narrated by Robert Rugaber, Butler county agent, and includes Helen Bell, home management specialist, and Lawrence Rubright, southwestern area Extension marketing agent.

Sociology seminar

Dr. Arnold M. Rose, professor of sociology at the University of Minnesota, is visiting lecturer in the Sociology Graduate Seminar in Social Psychology this week.

Previous visiting lecturers have been Dr. William Sewell, University of Wisconsin, and Professors Muzafer and Carolyn Sherif, of the Institute for Group Relations, at the University of Oklahoma.

The class meets four double periods a week, following two weeks of intensive reading in a field assigned by the visiting professor.

Social science

The annual fall meeting of the Social Science Research Center will be held Tuesday, Nov. 27 at 3:55 p.m. in Room 121 Sparks. The subject of the meeting will be the future of the Center.

faculty BULLETIN

Vol. 50, No. 19 Nov. 23, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

The Arts

The Penn State Singers, University Symphony Orchestra, various instrumental and vocal soloists will perform Hector Berlioz's "The Childhood of Christ," an oratorio in three parts Saturday at 8 p.m. in Schwab.

Raymond Brown, associate professor of music, director of the Penn State Singers, will also sing the roles of Herod and The Father of the Family. Theodore Karhan will conduct the Symphony Orchestra, which is to be augmented by organist Leonard Raver, the Alard String Quartet, and harpist Nan Gullo.

Other solo vocal parts will be sung by Joseph Krimmel (Narrator); Joseph Jumpeter (Centurian); Richard Kuiawa (Polydorus); Dorothy Ann Muller (Mary); and Dale Livingston (Joseph).

GRADE DEADLINES

Final examinations will end officially at 9:55 p.m., Thursday, Dec. 6 and Fall Term Commencement will be held Saturday, Dec. 8, at 10:30 a.m. in Recreation Building.

Grades for all students, including graduate students, who are to receive degrees at the commencement exercises must be reported to the Registrar's Office not later than 9 a.m., Friday, Dec. 7. Grade cards for degree candidates have a red stripe across the top; all such cards should be turned in by the stated deadline, whether or not the student is in doubt about graduating.

Grades for all other students must be reported to the Registrar's Office within 48 hours after the final examination. Final deadline for all grades, including research grades, is 9 a.m., Sunday, Dec. 9.

The Registrar's Office is in Room 4, Willard.

Preserve papers, faculty urged

A plea to University faculty members in all the sciences to preserve their papers has been made by Librarian Ralph W. McComb in response to urging by the American Institute of Physics.

The A.I.P. has established the Niels Bohr Library of the History of Physics, in New York, to insure the collection of materials—personal letters, photographs, apparatus, laboratory records, and annotated books and reprints—and to organize a locator file of historical materials in physics throughout the United States.

McComb's plea goes one step further in asking that all scientists on the faculty consider giving to the University Library the type of material useful to future scholars in the origins of science developments.

"Although available storage space must be considered in archival collecting," says McComb, "we prefer to get complete collections and do our own winnowing. We have had occasion in the past to lament the loss of papers of great value to research that have been thrown out, either because of too modest an appraisal of their significance, lack of interest in the past, or lack of room."

McComb also urges faculty members in disciplines other than the sciences to keep the library archive in mind for the preservation of their papers. Faculty authors, for example, can enrich the Library's collection of literary manuscripts. Correspondence with well-known persons and well-written letters which shed light on significant events, morals, politics, and customs of the writer's time are solicited.

The A.I.P., in a letter to McComb, quotes both James Clerk Maxwell and Albert Einstein as emphasizing the didactic value of the study of historical accounts and of original works in science.

Books

Dr. John M. Anderson and Dr. Henry W. Johnstone, Jr., professors of philosophy, are authors of "Natural Deduction," published by Wadsworth Publishing Co. It is a systematic introduction to logic and meta-theory based on the techniques of Gerhard Gentzen, German logician.

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, is author of "Understand Those Feelings: A Guide for Parents of Handicapped Children and Everyone Who Works with Them." The book has been selected as one of the books of the year by the Book Review Committee of the Child Study Association of America.

Exhibition

A special exhibit of full-color reproductions of the 14 famous paintings executed by Aaron Bohrod to depict "The Story of America's Religions" will continue on display in the small lounge of the Helen Eakin Eisenhower Chapel.

Bohrod portrayed the country's religious heritage with many priceless objects, including the spectacles of Benjamin Randall, founder of the Free Will Baptists, the saddle bags of Presbyterian missionary Dr. Marcus Whitman, and the title page of "The Bay Psalm Book."

Library schedule

Pattee Library will observe the following hours in the period between the Fall and Winter Terms:

Fri., Dec. 7—8 a.m.-5 p.m.; 6-10 p.m.*

Sat., Dec. 8—8 a.m.-noon; 1-5 p.m.*

Sun., Dec. 9—2-6 p.m.*

Mon.-Fri., Dec. 10-14—8 a.m.-5 p.m.; 6-10 p.m.*

Sat., Dec. 15, 8 a.m.-noon; 1-5 p.m.*

Sun., Dec. 16—2-6 p.m.*

Mon.-Thurs., Dec. 17-20—8 a.m.-5 p.m.; 6-10 p.m.*

Fri.-Wed., Dec. 21-26—Closed

Thur.-Fri., Dec. 27-28—8 a.m.-5 p.m.; 6-10 p.m.*

Sun., Dec. 30—2-6 p.m.*

Mon., Dec. 31—8 a.m.-5 p.m.

Tues., Jan. 1—Closed

Wed.-Fri., Jan. 2-4—8 a.m.-5 p.m.; 6-10 p.m.*

Sat., Jan. 5—8 a.m.-noon; 1-5 p.m.*

Sun., Jan. 6—2-6 p.m.*

Mon., Jan. 7—Regular schedule effective.

* Building open for faculty and graduate students only. No service.

PARKING

To permit the access of equipment to certain parking areas during the snow season, the areas will be closed to parking between the hours of 2 a.m. and 6 a.m. effective now and continuing until spring.

Areas affected are: 1, 11, 14, 23, 30, 38, 40, 41, 46, 50, 61, 62, and 70, which are faculty-staff areas, and also 89, student area.

Signs will be erected at each of the areas. Other parking areas will be cleared of snow at the earliest possible time.

Nuclear studies continue growth

AN increasingly significant part of the University's research program had its beginnings twenty years ago this coming Sunday under the University of Chicago's football stadium.

That was the day the first sustained nuclear chain reaction was achieved by man and what has gone on since has changed the course of history thoroughly.

Penn State's venture into the field of atomic energy began in 1953, when Dr. Walker induced Dr. William Breazeale to come here to initiate the design and construction of a nuclear reactor. Although many scientists were already making use of the services of such government-owned facilities as those at Oak Ridge, Tenn., only North Carolina State College had developed a privately-owned nuclear reactor.

The usefulness of a nuclear reactor in university instruction and research was obvious to many, but most designs in existence were for costly installations. Dr. Breazeale said he could build one for \$250,000 and subsequent events indicated he was nearly correct.

Many members of the faculty and staff aided Dr. Breazeale in his crash-schedule of construction of the reactor. Members of the architecture and architectural engineering faculty designed the pool structure; mechanical engineers designed the reactor bridges, rod drives, and other mechanical parts; physics department members helped develop the research facilities in the building. The fuel element financed by the U. S. Atomic Energy Commission, was the only part of the reactor not paid for from University funds in the initial construction. Between 1954 and 1960 approximately \$150,000 worth of capital improvements were made. Construction currently underway, aided by an allocation of nearly half a million dollars by the General State Authority, will provide not only more working space but also two hot cells and a radiochemistry and chemical engineering wing for the building. Also, the National Science Foundation has provided \$168,000 for auxiliary equipment, and the Atomic Energy Commission has given funds for a new set of fuel elements and for the purchase of a neutron generator for pulse neutron research.

All of these steps have served to put Penn State in the forefront of nuclear research and instruction and a further step forward was taken with the purchase of a Van De Graaff and

Linear Accelerator being installed in a building now under construction with aid of a \$750,000 allocation by G. S. A.

Its Uses

The reactor and allied equipment provided a new tool for research by the faculty and graduate students and opened up a new area of instruction. The first program, in cooperation with the Atomic Energy Commission and Argonne National Laboratory, was the International School of Nuclear Science and Engineering. During the program, 175 foreign students were trained and the courses provided served as a basis later for a series of course offerings at the graduate level in the field of nuclear engineering.

In 1959, the Board of Trustees approved formation of a Nuclear Engineering Department to offer graduate programs and even in the short space of three years it has already become recognized as a leader in teaching and research under N. J. Palladino, head of the department. There are now 28 graduate students studying for either the master of science or master of engineering degree.

Instruction in other fields has been enhanced by the facilities here also, for example in nuclear chemistry under Dr. Warren W. Miller, in chemical engineering under Dr. Wallace A. Lloyd, and in physics. Dr. Radha Roy directs over-all a program in physics which covers a wide range of problems, both experimental and theoretical. There are now 30 graduate students in nuclear physics and during the past three years much apparatus has been built or purchased for studies in advance of completion of the Van De Graaff generator installation.

Research

Today over 100 experimenters use the reactor for research, including physicists, chemists, engineers, biologists, geochemists, and other specialists. Outside agencies, such as Bell Telephone Laboratories and HRB-Singer, Inc., have made use of the

(Continued on page four)

Engineering

The Engineers' Council for Professional Development, national accrediting organization for the engineering profession, has reaccredited 14 curriculums.

Curriculums receiving reaccreditation were: aerospace, agricultural, architectural, chemical, civil, electrical, industrial, mechanical, mining, petroleum and natural gas, and sanitary engineering; engineering mechanics; ceramic technology; and metallurgy.

The honors curriculum in the College of Engineering had been reaccredited previously in a separate evaluation. The curriculum in nuclear engineering was not included since it is a graduate program, rather than a specific curriculum.

Senate meeting

The University Senate will meet Tuesday, Dec. 4, at 3:55 p.m. in Room 121 Sparks.

Identification

Effective Dec. 1, each technical-service employee whose regular work assignment requires that he enter buildings other than the building to which he is normally assigned will be provided with an identification badge containing a prominently displayed number. The badges are assigned to departments in blocks according to number. The number of the badge, therefore, identifies the department.

This program has been established to assist in the identification of persons authorized to be in University work areas. A faculty or staff member should investigate any individual's presence in their work areas if there is question about that individual's authority to be in that area.

Christmas Trees

Christmas trees may be ordered by University departments by an Inter-departmental Transfer Form to the Maintenance and Utilities Dept., 322 Old Main, stating size of tree, delivery date, and location.

Prices of trees are: 3-4 ft., \$2.50; 5-7 ft., \$4.00; 8-10 ft., \$6.00; and greens by the bushel, \$1.00.

All trees used in University buildings must be treated with fire resistant material.

Fire-proofing will be done for campus organizations only, by the Maintenance and Utilities Dept., each Monday, Wednesday, and Friday from 1 p.m. to 3 p.m. until Dec. 12. Each organization is responsible for its own delivery and pickup. The work is done at the Landscape Maintenance depot just east of the Chemical Engineering Laboratory.

CALENDAR

FRIDAY, NOV. 30

Charles E. Feinberg talk before Conference on Bibliography, Nittany Lion Inn, 8:30 p.m., on "Collecting Manuscripts for Scholars."

Biophysics Seminar, 1:10 p.m., Room 300 Walker. Dr. Eugene Lindstrom, assistant professor of bacteriology, on "Energy Relationships in Bacterial Photosynthesis."

Interlandia Folk Dances, 7:30 p.m., Room 105 White.

SATURDAY, DEC. 1

Performance of Hector Berlioz's "The Childhood of Christ" by Penn State Singers, University Symphony Orchestra, and various soloists, 8 p.m., Schwab Auditorium.

SUNDAY, DEC. 2

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. John Meyendorff, professor of patristics, St. Vladimir's Orthodox Seminary, on "I will ransom them from the power of the grave."

MONDAY, DEC. 3

Fall Term classes end, 9:55 p.m.

Engineering Mechanics Seminar, 4 p.m., Room 109 Sackett. Dr. Joseph Marin, on "Higher Education in U.S.S.R."

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Christmas program by Meditation Chapel Choir.

TUESDAY, DEC. 4

Senate meeting, 3:55 p.m., Room 121 Sparks.

Final exams begin.

FRIDAY, DEC. 7

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. E. R. Lindgren, Johns Hopkins University, on "Transition and Turbulence in Pipe Flow."

Faculty Women's pot luck supper, 7:30 p.m., Rec. Hall.

SATURDAY, DEC. 8

Fall Term Commencement, 10:30 a.m., Rec Hall.

PERSONNEL MATTERS

Dr. Benjamin W. Gault, senior member of the faculty at York Country Day School, York, Pa., has been named assistant director of the York Campus. He was assistant professor of English at the U. S. Military Academy from 1916 to 1960 and has taught also at the Naval Academy, and Genesee (N.Y.) Teachers College. He is a Yale University graduate and also received advanced degrees at Yale.

Dr. Dorothy H. Veon, professor of secondary education, will be on leave during the 1963 Summer Term to direct two workshops at the University of Oregon. The workshops will be concerned with current trends and issues in business education.

Dr. Isador M. Sheffer, professor of mathematics, will spend the 1963 Spring and Summer Terms traveling in Europe and doing research and will visit various universities abroad.

Dr. Richard C. Bollinger, former research mathematician at Westinghouse Research Laboratories in Pittsburgh, is now assistant professor of mathematics. He received all three degrees from the University of Pittsburgh.

ITEMS OF INTEREST

Elected and Appointed

BURLEY, G. W., Wilkes-Barre, named program chairman, Luzerne County chapter, Penna. Society of Professional Engineers.

MCCORM, R. E., continuing education in engineering, named chairman of the extension section, Division of Engineering, Association of State Universities and Land Grant Colleges.

REMICK, E. J., Nuclear Reactor, named program chairman, first United States Canadian sponsored joint meeting on reactor operations at Ottawa next year.

Lectures and Talks

BURLEY, G. W., Wilkes-Barre, "The Dilemma of Engineering" at the Teachers Institute of Parochial Schools in the Diocese of Scranton at Marywood College.

BRODRICK, C. B., family relationships, "Coping with Your Teenagers" before Kiwanis Club of Canandaigua, N. Y.

—"What We Are Learning about the New Dating Patterns" before the P.E.A. of Canandaigua.

HAYES, J. R., chemistry, "Analytical Applications of Induced Reaction" at the Chemistry Seminar, Villanova University.

MATHER, W. G., sociology, "When Men and Machines Work Together" at the Third Conference on Health Care sponsored by the Pennsylvania Medical Society and the Penna. AFL-CIO.

JORDAN, JOSEPH, chemistry, "Enthalpy Functions and Analytical Significance of Heats of Reaction" at the University of Maryland, sponsored by the Chemical Society of Washington.

MUELLER, E. W., physics, "Recent Advances in Field Ion Microscopy" at the Advanced Technology Symposium arranged by the American Society of Mechanical Engineers at the University of New Mexico.

—colloquium talks on "Points Defects in Metals" at the Research Laboratory of Sandia Corp., Albuquerque; at University of Arizona; and at University of Illinois.

NUMER, B. W., industrial engineering, on indirect time standards, at the 26th annual Industrial Engineering and Management Clinic of the Industrial Management Society at Chicago.

SATIR, J. A., physics, as visiting lecturer at the University of Delaware, Dec. 12-13, sponsored by American Association of Physics Teachers and American Institute of Physics.

Articles and Papers

ANTHONY, ADAM, zoology, "Acoustical Considerations in Housing of Laboratory Animals" at the National Academy of Sciences-National Research Council Symposium on Housing of Laboratory Animals.

At the meetings of the American Society of Animal Science meetings in Chicago, papers by SINK, J. D. on "Fat Deposition in Swine" with MILLER, R. C., animal industry and nutrition; by STUTINGS, B. R., "Mineral Balance Trials with Sheep Fed Orchard Grass Containing Various Levels of Nitrogen"; and KING, I. B., "Evidence of Rumens-Reticular Losses of Vitamin A and Carotene."

BUCKMAN, A. D., and JONES, B. L., Jr., mechanical engineering, "Dynamic Characteristics and Design Criteria for a Class of Vibration Processing Machines" at the American Society of Mechanical Engineers meeting in New York.

HANSON, BILL, art, "Environments for Creativity" at the first George Eastman House National Conference on college level teaching in photography.

HUNTER, A. S., with McGUIRE, G. W., Jr., soil technology, "Investigations of Ammonium Chloride as a Nitrogen Fertilizer for Forage Crops and Corn" in Vol. 51 of the Agronomy Journal.

McMAHON, J. E., Ordnance Research Lab, and LUMLEY, J. L., aeronautical engineering, "Stability of Rectilinear Concrete Flow with an Admissible Boundary," at the meeting of the Division of Fluid Dynamics, American Physical Society, at the University of Oklahoma.

NISTLEFROE, J. A., Ordnance Research Lab, and LUMLEY, J. L., aeronautical engineering, "Initial Response of the Spectrum of Isotopic Turbulence to the Sudden Application of a Strong Magnetic Field," at the meeting of the American Physical Society at the University of Oklahoma.

OBLEND, M. L., olericulture, "The Genetics of Incompatibility in Broccoli Brassica oleracea var. italica," in the Proceedings of the American Society for Horticultural Science, Vol. 80.

ORSON, D. R., mechanical engineering, with SPRINGER, G. S., "Method of Solution of Axisymmetric Solidification of Melting Problems," at the A.S.A.E. meeting in New York.

ORTEL, G. H., THILL, P. W., and RICHIER, H., engineering mechanics, "Research Investigation on Strain Analysis of Metal Sheets with Notches and Cracks" published by Aeronautical Research Laboratory of the U. S. Air Force.

REEVES, T. M., Audio Visual Aids Library, "Programmed Instruction for Adult Learners" in the Autumn issue of Adult Education.

ROSE, ARTHUR, chemical engineering, at the American Chemical Society meeting in Atlantic City: "Chromatographic Distillations," with WASSER, P. J., and LEHMAN, R. A.; "Vapor-Liquid Equilibria for the Methyl Oleate and Methyl Stearate Binary System" with Schrodt, V. N.; and "Fast Solution of Simultaneous Equations for Multi-Component Batch Distillation," at the American Oil Chemists' Society, "Correlation and Prediction of Vapor-Liquid Equilibria in the Homologous Series of Common Fatty Acids and Alcohols."

SANTORO, THOMAS, and CASIDA, L. L., Jr., bacteriology, "Growth Inhibition of Mycorrhizal Fungi by Gibberellin" in the Jan./Feb. issue of Micologia.

SATIR, J. A., physics, "Nuclear Magnetic Resonance Applied to Polymer Research," at the Eastern Analytical Symposium and Instrument Exhibit, in New York.

WHITE, E. L., speech, "Solomon Stoddard's Theories of Persuasion" in Speech Monographs.

WILLARD, MARY L., chemistry, "Dichroism of Small Crystals" at the Eastern Analytical Symposium and Instrument Exhibit in New York.

Advisors advice

Advisors of students on academic matters may be interested in the changes in the makeup of two courses, Economics 2 and 14, which affect many students throughout the University.

Although the changes were put into effect last year, some students are apparently still being scheduled for the two courses under the supposition that they are composed as they were before the changes.

Economics 2 and 14 have, almost traditionally, comprised a year-course, and were required of all majors in the College of Business Administration and in the economics curriculum in the College of Liberal Arts. They were taken also by students from other curriculums as required or elective courses.

The changes effected last year were these:

1. Economics 14 was made a terminal one-term course, intended for students not likely to take any additional economics and not to be taken by College of Business Administration majors or economics majors in the College of the Liberal Arts.

2. Economics 2 was joined with Economics 50 to make up an entity in the principles of economics. The two courses are more analytical and less descriptive than Econ. 14 and intended to provide foundations in economic theory required of all students who would pursue advanced work in economics. They are prerequisites for most 300 and 400 level courses.

A student should not plan to take both Econ. 2 and Econ. 14, for he

would repeat some material and not develop sufficient groundwork for any advanced work in economics.

If a student wishes to take only three credits of economics, he should schedule Econ. 14.

If he wishes to take six credits, he should schedule either Econ. 2 and 50, or follow up Econ. 14 with one of the 300 or 400 level courses for which Econ. 14 is still a prerequisite: Econ. 333 (International Trade); 340 (Comparative Economic Systems); 372 (The Economy of the Soviet Union); 400 (History of Economic Thought), or 401 (Economic Framework of Modern Society).

NUCLEAR —

(Continued from page two)

radiation capabilities of the reactor.

One typical study by the nuclear engineering staff concerns the effect of radiation on materials, useful, of course, in developing a better understanding of what happens to all types of metals and other materials near reactors such as those in nuclear-powered ships or electric-generating plants.

A second study, in cooperation with the fuel technology staff, is the investigation of gas diffusion in solids, particularly diffusion of radioactive xenon in graphite, of especial significance in reactors, in which graphite is used as a neutron moderator.

These are only two of the many projects scientists have used the reactor for and more are being added yearly, sponsored both by outside agencies and by the University. The Atomic Energy Commission, National Science Foundation, and the De-

fense Department are but three of the governmental agencies aiding in this research, which overall costs several millions of dollars.

A few short years ago little of this program was possible, only that which research people could develop in cooperation with governmental reactor facilities. And it was only 20 short years ago that the entire field was opened up by a few men doing secret work on the squash courts at Chicago.

Bibliography

Charles E. Feinberg, internationally known bibliophile and collector of Walt Whitman manuscripts, books, and artifacts, will speak before the Conference on Bibliography tonight (Friday) at 8:30 p.m. at the Nittany Lion Inn.

His talk is titled "Collecting Manuscripts for Scholars," and it will be open to the public.

The Conference is attracting many scholars to the campus, including Dr. David V. Erdman, editor of library publications for the New York Public Library, and George deF. Lord, professor of English at Yale University.

NSF deadline

Deadline for application for NSF Postdoctoral Fellowships as outlined in the Faculty Bulletin of Nov. 16 is Dec. 16. Application materials must be obtained from the National Academy of Sciences office in Washington and office cards for obtaining these materials are available in the Graduate School office in 101 Wil-
lard.

faculty BULLETIN

Vol. 50, No. 20 Nov. 30, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Dec. 7

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. D. E. R. Lindgren, The Johns Hopkins University, on "Transition and Turbulence in Pipe Flow."

Mineral Industries Colloquium, 3:45 p.m., Room 26 Mineral Sciences. Dr. L. H. Lattman, associate professor of geomorphology, on "Airborne Infrared Imagery."

Faculty Women's pot luck supper, 7:30 p.m., Rec Hall.

Saturday, Dec. 8

Commencement Exercises, 10:30 a.m., Rec Hall. (Faculty in academic procession meet under south balcony at 10:15 a.m.)

Basketball, vs. Syracuse, 8 p.m., Rec Hall.

Tuesday, Dec. 11

Basketball, vs. Colgate, 8 p.m., Rec Hall.

Saturday, Dec. 15

Wrestling, vs. Michigan, 8 p.m.

Engineering

The third in a series of engineering colloquies on interdisciplinary topics will begin Monday, Dec. 10, with Dr. Elliott I. Organick, director of the Computer and Data Processing Center at the University of Houston, as featured speaker.

Dr. Organick, who is also professor of chemical engineering, will speak on "Examples of Non-Numerical Computer Problems for Introducing Undergraduates to Computing Techniques" at the banquet Monday at 6:30 p.m. in the HUB.

About 40 participants—two from each of the departments in the College and one from each of the Commonwealth Campuses—will take part in the colloquy, which will continue until Thursday. Similar colloquies were held in March and June and others are planned for the future.

Original music also

Commencement tomorrow

About 320 undergraduate, 140 master's candidates, 11 doctor of education and 29 doctor of philosophy candidates will be granted degrees at Commencement Exercises tomorrow (Saturday) at 10:30 a.m. in Recreation Building.

Bachelor's degrees will be granted to 29 students in Agriculture, 46 in Business Administration, 9 in Chemistry-Physics, 72 in Education, 58 in Engineering and Architecture, 18 in Home Economics, 65 in Liberal Arts, 7 in Mineral Industries, and 15 in Physical Education and Athletics.

Master's degrees will be granted as follows: 23 master of arts, 5 master of business administration, 49 master of education, and 63 master of science.

As is customary, faculty members who plan to be part of the processional will gather under the south balcony in Rec Hall at 10:15 a.m. Members of the faculty who attend the ceremonies but who do not plan to be in the processional will find a section of seats set aside for them and their wives.

Special Music

University organist, George E. Ceiga, has composed special music for the occasion.

He will play the composition, "Folktunes from the Hills of Pennsylvania" as a prelude. He wrote the music from "Collection of Pennsylvania Folktunes," by Samuel P. Bayard, professor of English, who is widely known for his collection of folk tunes.

Ceiga also wrote the academic processional which he will play with a 14-piece brass ensemble. Rex Rockwell, instructor of music, will direct the ensemble.

Ceiga has composed or arranged many compositions. Among his original works are organ pieces, "Clouds" and "Mirage," an anthem for treble voices; an anthem, "Antiphon for Festival and Magnificat," commissioned and sung the Chapel Choir for the 1955 Spring Concert; various responses by the Chapel Choir; an organ meditation on "Bethany"; and "Credo," first presented by the Choir in 1958.

Nittany Lion Inn

The Nittany Lion Inn will remain open throughout the entire period between terms. Also, dining service will be available for all meals, according to the following schedule:

Breakfast—8 to 11 a.m.; Lunch—noon to 2 p.m.; Dinner—5:30 p.m. to 8 p.m.

For Christmas Day and New Year's Day the same meal hours will be observed.

Enrollments

An evidence that the expected enrollment crush has not yet hit the colleges and universities of the country is contained in the information provided by Dr. Garland G. Parker in the annual study of enrollment statistics for the education journal, *School and Society*.

"The standout fact in full-time enrollments," says Dr. Parker, "is a slowdown in freshman registrations, with a growth of only 0.3 per cent indicated in the 531,215 first-year students in 897 institutions reporting in both 1962 and 1961."

The year's small increase contrasts sharply with the increases in 1961 (5.4 per cent) and 1960 (11.4). The lag is attributed to the World War II lower birth rates.

Freshman enrollments by study fields showed the following results: engineering down 5.7 per cent; declines also in business, agriculture, and nursing; increases in education (3.2 per cent) and arts and sciences (1.4 per cent).

Other results of Dr. Parker's study include the following:

1. Full-time students (in 1,045 institutions reporting) were up 6.2 per cent despite the small increase in freshman enrollment.

2. Part-time and evening class enrollments up 7.3 per cent.

3. Grand total enrollment is up 6.5 per cent.

4. Of all students, full and part-time, 54 per cent are in large public and private universities.

5. Enrollment in the Middle Atlantic states is up only 3.4 per cent, lowest of the nine regions.

6. Returns from 1,090 institutions in 50 states and Puerto Rico shows a total of 2,455,398 full-time students and a grand total of 3,493,626.

Penn State now ranks 12th in full-time enrollment, displacing Purdue in last year's statistics. The University of California, with 56,519 students is first; Penn State is listed as having 19,332.

History teaching program

WHEN the department of history began discussion of ways to handle the teaching program of its rapidly expanding service courses, the members of the faculty decided to try to solve several problems at once: (1) how to handle the greater numbers of students with instruction of a high level; (2) how to make best use of graduate students and give them a worthy master's and doctor's degree background; and (3) how to give the faculty the time to teach advanced courses and to do research, while also making them responsible for undergraduate instruction.

A great deal of thought and planning went into the preliminaries before an acceptable way to handle the survey courses—History 18, 19, 20, and 21—was formulated. But members of the department feel they now have a system which works for their problems and goals, and may be useful to other departments as well.

Like most departments which handle large numbers of students from all over the campus, history began working on the problem after World War II when it became apparent that the "regular small" class of 35 students, taught in entirety by a senior faculty member, would have to be modified. Many techniques were used—"regular large" sections of 150 students in a lecture, "large two-one" sections of two lectures and a discussion period; and "large with accelerated" sections with sections of small numbers of outstanding students to give them a chance to do more than average students.

Introduction of the term system, but in particular the introduction of the 75-minute period, raised the question of lecturing to 150 students for that length of time. The result of all these considerations led to the "T.V. section."

Taking an increment of 250 students in a course (the number might vary from 175 to 275) the department provides one senior professor, two terminal instructors, and eight graduate students to teach, for example, History 19 in ten sections.

Lectures are given, via closed-circuit television, to all 250 students in ten viewing rooms for 45 minutes of the 75-minute period. Each of the three faculty members (senior professor and two terminal instructors) gives approximately one-third of the lectures.

Two of the ten sections are special in the following respects: each has only 15 students; all students in these two sections are specially selected for outstanding potentiality; the discussions are led by a faculty member rather than a graduate student; at the

discretion of the faculty member television lectures may not be used; more emphasis is placed on interpretation of historical events than on facts as such.

In short, the sections provide the answer to stimulating the better student to go beyond the average student in his study.

Students are selected for these accelerated sections from among history or social studies majors with good grade point averages, from all students with 3.0 or better all-University averages, or from a special test given in the first period.

The other eight sections of approximately 27 students each hear the television lecture for the first two-thirds of the period, then use the last third for discussion, stimulated by a graduate assistant, either of the lecture materials, or of some other material at the discretion of the graduate assistant, or of material on specific assignment from the faculty member.

In the Flesh

To overcome the objection that the students in these eight sections might never see a faculty member in the flesh, the department added one other proviso, that the senior faculty member visit one of the sections for the 30 minutes following each lecture. In the visit, he attempts to become part of the discussion, without dominating the class. His presence is intended to add to the resources of the discussion, rather than to replace the graduate assistant as class leader.

When the senior faculty member is not giving the television lecture, one of the two terminal instructors does. (A terminal instructor is a member of the faculty who has been hired for a period no longer than two years. Usually he is a Ph.D. whose teaching experience is somewhat limited.) On the day the terminal instructor lectures on television, the senior faculty member conducts the discussion in the section normally handled by the terminal instructor.

The obvious advantages of these

arrangements are: (1) the students are all exposed to the senior professor; (2) the terminal instructor experiences television lecturing; (3) the senior faculty member and terminal instructor learn more about the special students.

Instructors in the accelerated sections need not use television: if it is felt that the television lecture does not fit into the current work, the instructor provides his own lecture or conducts the class in whatever manner he chooses.

Examinations are made up in a variety of ways. Some instructors make up the exam alone, others in consultation with the graduate assistants. Often the graduate assistant is given the privilege of making up quizzes for the discussion periods if he chooses to. All paper grading is done by the graduate assistant.

Results

Aside from the subjective evaluations of the new system by students, graduate assistants, and faculty members, the department uses one other criterion to judge the strength of its present system—the grade distribution now compared to that in 1959, before the program was initiated. The faculty is well aware that many interpretations can be put on the data, but the fact remains that whereas the percentage of "A" grades was 6 in 1959, it is now 12, and the percentage of "F" grades was 6 in 1959, it is now 3.

Working with the Division of Academic Research and Services, the department has attempted to get student opinion on the system, with the following results:

- Students like the change of pace in breaking up the 75-minute period into lecture and discussion.
- They like to have someone who knows them personally in charge of their class.
- They like discussions immediately following the lecture instead of several days later.
- They can see and hear better than in large sections.
- The physical comforts of the smaller rooms are preferred.

Graduate assistants have expressed varying opinions, emphasizing the freedom they have in the discussion periods as a positive value but pointing out that good liaison must be maintained by the lecturer so that the graduate assistant knows exactly what is expected of him in the discussion period. In some cases, they noted, examinations prepared by the

(Continued on page four)

ITEMS OF INTEREST

Articles and Papers

- ADAMS, W. M., veterinary science extension, with SPENCER, S. B., and PARKIN, E. E., dairy science extension, a symposium on "The Milking Machine: Its Problems and Solutions" at the annual meeting of the International Association of Milk and Food Sanitarians at Philadelphia.
- BRANDOW, G. E., agricultural economics, "The Use of Payments in Farm Programs," at the National Agricultural Policy Forum sponsored by the Chicago Board of Trade, Dec. 11-12.
- BROWN, I. V., American history, "Garrisonian Abolitionism in Pennsylvania" at the annual convention of the Penna. Historical Association.
- ENGEL, A. J., chemical engineering, "Mass Transfer and Contractor Efficiency in a Stirred Reactor" at the 55th annual meeting of the American Institute of Chemical Engineers at Chicago.
- FLIPSE, R. J., dairy science, "Metabolism of Bovine Semen XII" in the September issue of the Journal of Dairy Science.
- KLAUS, E. E., chemical engineering, "Some Chemical and Physical Aspects of Boundary Lubrication" at a meeting of the Research Committee on Lubrication of the A.S.M.E. in New York.
- MARIN, JOSEPH, engineering mechanics, "Strength of Thick-Walled Cylindrical Pressure Vessels," at the annual meeting of the American Society of Mechanical Engineers, in New York.
- MEYER, W. E., mechanical engineering, "Air Pollutants from Motor Vehicles" at the National Conference on Air Pollution" at Washington, D. C., Dec. 10-12.
- MORSE, J. M., English, "Joyce and the Early Thomas Mann," in the current issue of Revue de Litterature Comparee.

- SPICER, T. S., mineral preparation engineering, with C. S. FINNEY, "The Influence of Particle Size and Volatile Content on the Ignitibility of Pulverized Bituminous Coal," at the annual meeting of the A.S.M.E. in New York.
- WEINTRAUB, STANLEY, English, "Castle Corner: Joyce Cary's Buddenbrooks" at the annual meeting of the Modern Language Association in Washington, D. C., Dec. 27-29.

Elected and Appointed

- ERAUGH, PAUL, Engineering and Architecture, elected to the Council of the Research Section, Engineering Division, Association of State Universities and Land-Grant Colleges.
- GRINATA, M. C., Allentown Center, appointed to the Advisory Committee on Civil Technology, Vocational Dept., Liberty High School, Bethlehem, Pa.
- HARRIS, D. B., psychology, appointed a member of the Advisory Committee on Research of the Child Welfare League of America.
- PARKIN, I. E., dairy science extension, elected president, North Central Penna. Association of Dairy Sanitarians.
- RENUCK, F. J., Nuclear Reactors, appointed to the Membership Committees of the American Nuclear Society.
- SMITH, G. W., chemistry, re-appointed Chief Examiner, in Chemistry, for the College Entrance Examination Board, sixth annual appointment.
- MCCORMICK, R. H., chemical engineering, appointed to the Student Chapters Committee, American Institute of Chemical Engineers; also as assistant editor, Student Members Bulletin.
- WAYNICK, A. H., electrical engineering and Ionosphere Research Lab, appointed to the Arecibo Advisory Committee of the Air Force Office of Scientific Research.

Lectures and Talks

- BALLA, ROBERT, Wilkes-Barre, on the engineering profession at Coughlin High School Career Day.
- BIRLEY, G. W., Wilkes-Barre Center, on the engineering profession at Sayre High School Career Day.
- COSTANZO, A. V., Wilkes-Barre Center, on the teaching profession, before the Future Teachers of America Club at Lake-Lehman High School in January.
- KOLFSAR, JOHN, Wilkes-Barre Center, "Sources of Map or Deed Information for the Surveyor" at the Third Land and Construction Surveyors Conference.
- MARES, V. E., economics, "The European Common Market" as keynote speaker at the Sixth College-Business Discussion Program, in Erie, sponsored by the Erie chapter of the Americans for the Competitive Enterprise System, Inc.
- McKINLEY, D. H., Business Administration, "The Role of Profits in an Expanding Economy" at a dinner meeting of the Indiana County Industrial Management Club.
- SOWA, W. A., Wilkes-Barre Center, on the engineering profession, at Nanticoke Sr. High School, during National Education Week activities.
- WEYL, W. A., physical sciences, "Equilibria and Rate Phenomena as Affected by the Structure of Water and Solutions," at an Atlas Chemical Industries, Inc., Wilmington, Del., seminar.

The Arts

- ALTMAN, HAROLD, art, one-man show of paintings, prints, and drawings at the Kenmore Galleries in Philadelphia, Dec. 12-13.
- CALDWELL, ELEANOR J., family housing and home art, an exhibit of hand-crafted jewelry, at the Fine Arts Center, University of Southwestern Louisiana.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Stackpole Carbon Co.	\$3,700	Fellowship in ceramic technology	W. R. Buessem
Penna. Dept. of Health	6,000	Hearing and speech services	B. M. Siegenthaler
Pittsburgh Corning Corp.	5,570	Two used low temperature refrigeration systems for agricultural engineering and veterinary science	F. W. Peikert & A. L. Bortree
Olmstead Air Force Base	2,847	Course in management techniques	John Kraft
ibid.	2,805	Training courses	John Kraft
American Can Co.	4,085	Gift of vacuum closing equipment	H. O. Triebold
Cooperative G.L.F. Exchange	1,000	Evaluation of corn silage	J. B. Washko
Penna. R.E.A. Association	3,000	Use of electricity on the farm	Frank Anthony
Penna. Electric Assoc.	4,000	Markets for fly ash	J. J. Schanz, Jr.
National Science Foundation	38,500	Institute on manufacturing processes and design	B. W. Niebel
ibid.	45,400	Institute on animal behavior	Martin Schein
Army Ordnance District	10,814	Multi-Fuel operation	W. E. Meyer
U. S. Air Force	31,990	Mechanism of fatigue	M. A. Wilkov
Penna. Electric Assoc.	20,250	Fly ash in Portland Cement concrete	T. D. Larson
National Science Foundation	7,900	Undergraduate science program	R. W. Stone
ibid.	39,765	Science Seminar in algebra	D. G. Johnson
Army Ordnance District	13,513	Stratified charge system	W. E. Meyer
U. S. Public Health Service	15,621	Cellular and mitochondrial metabolism	Rosemary Schlaer
Penna. Dept. of Property and Supplies	54,000	Power Plant Advisory Service	W. L. Muschlitz
Atomic Energy Commission	12,260	Cylindrical pressure vessels	D. E. Hardenbergh
ibid.	15,500	Radiation studies on transforming DNA on TMV-RNA	W. Y. Ginoza
U. S. Air Force	15,000	Infrared spectra of nitrogen oxides	I. C. Hisatsune
ibid.	15,999	Infrared multiple beam interferometry	T. K. McKubbin

History—

(Continued from page two)

faculty member covered material not developed in the discussion period nor specifically emphasized in the reading.

On the other hand, graduate assistants viewed the program as a good method of introducing them to teaching without full responsibility for a class. They agreed that some classes were easy to stimulate to discussion, others impossible, the reasons being very complex. They felt, too, they did a more adequate job of grading papers, especially of the essay type. Grading honestly 150 papers of the essay type in the old large non-TV section was difficult; after the first 100 there was a certain sameness to answers, real or imagined.

Faculty members have been divided in their opinions. Television lectures require more preparation, some say; others prefer a closer liaison with their students, and regret the shifting of instructors and lack of continuity, an objection raised by some of the students.

From a departmental standpoint, the handling of 250 students, which would have required seven regular faculty members in the traditional manner of teaching, is accomplished much less expensively. Also, using graduate students in a limited way to teach not only reduces teaching expense but improves the graduate program and ferrets out prospective college teachers.

The system of using "terminal instructors" has a distinct advantage in recruiting young instructors and training them. They gain, in turn, by being exposed to many facets of the teaching profession in a

short time and can display a broad background in seeking permanent teaching situations elsewhere.

Certainly one of the encouraging features of the system for regular faculty members is the opportunity they are given to handle advanced classes and to do research, unburdened by the paper-grading chore and of lecturing to many sections of survey courses.

Television

Some faculty members consider television as a means of solving the problem of numbers but prefer the "regular small" sections method of teaching.

Some students in the survey courses are still taught in this manner. Within limitations of their own scheduling, students may still elect the survey course without television. This year about 3,400 students are or will be enrolled in History 18, 19, 20, or 21; about 2,500 of them will be enrolled in the "T.V. Section" classes.

No one in the department believes the new system is a panacea, but it is one answer to the several problems cited.

"The continued use of small discussion sections for the undergraduate survey students," the department reports, "contributes best to the development of critical reasoning and to student motivation, participation, and achievement. We believe that in this new approach we have avoided the pitfall of neglecting the undergraduate student as we expand our graduate and research programs.

There will be an issue of the Faculty Bulletin next week; the issue to follow will be dated Jan. 4.

Bowling

The University bowling lanes will be able to accommodate many more non-league bowlers during the period between terms than is customary while classes are in session.

The lanes will be available for open bowling each Saturday, Sunday, Monday, and Thursday from 7 to 11 p.m. and each Tuesday, Wednesday, and Friday from 8:45 p.m. to 11 p.m. until Dec. 23.

The following schedule will prevail after the Christmas holiday.

Dec. 26 through Dec. 30, 7 to 11 p.m.

Dec. 31 and Jan. 1 closed

Dec. 2, open 8:45 to 11 p.m.

Jan. 3, open 7 to 11 p.m.

Jan. 4, open 8:45 to 11 p.m.

Jan. 5, open 1 to 5 p.m. and 7 to 11 p.m.

Candlelight Dinner

The annual Candlelight Christmas Dinner at the HUB Terrace Room will be served Tuesday, Dec. 11, from 5 to 6:45 p.m. No reservations are necessary. Suitable decorations will be provided.

The Terrace Room will close for the period between terms Friday, Dec. 14, and reopen Jan. 2. The Lions Den Grill will also reopen Jan. 2.

IFC winner

The Penn State Interfraternity Council was named winner of the National Interfraternity Conference award for the outstanding fraternity system among universities having 30 or more fraternities.

Basis for the award was the increased responsibility in campus activities shown by local fraternities; for growth in fraternity membership; and for its service to the University and community.

faculty BULLETIN

Vol. 50, No. 21 Dec. 7, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K. KELLY
401 PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

The Arts

The University Chapel Choir, with Mrs. Willa Taylor directing, will present the music for a midnight Epiphany Service Saturday, Jan. 5.

A prelude concert will open the service at 10:40 p.m., with Dr. Leonard Raver, Chapel organist, Mrs. Overda Page, flutist, and Raymond Page, violist. They will play "Noel in G," by Claude Daquin; "Sonata in F" for flute and organ, by Georg Philip Telemann; "Chorale Prelude and Fugue on Von Himmel hoch" by Johann Pachelbel; and "Poem" for viola and organ, by Leo Sowerby.

The choral program will include the following:

"In ecclesiis" from Book II of the "Symphonie Sacra" by Giovanni Gabrieli, with organ and six brass instruments.

"O quam suavis," by William Byrd.

"Hosanna to the Son of David," by Thomas Weelkes.

"O Lord, the maker of all things," by John Joubert.

"Sinfonia Sacra," by Daniel Pinkham.

At the offering, Dr. Raver will play "Chorale Prelude on Herzlich tut mich erfreuen," by Johannes Brahms, and for the postlude, Louis Claude Daquin's "Noel Suisse."

The Service will be conducted by the Rev. P. Barrett Rudd, acting director of the U.C.A.

GREETINGS

This is the concluding issue of Faculty Bulletin for 1962. May we take this opportunity to wish faculty and staff a very joyous Christmas and a happy and bright New Year.

The next issue of Faculty Bulletin will appear January 4.

Compared to ten others

Salary gap closing

THE UNIVERSITY has partially closed the gap between salaries of its faculty and those paid by institutions with which it competes for personnel.

Average salaries of full professors on 12 months salary have been increased by 24 per cent since 1959-60, President Walker said, with full professors now averaging \$13,909 annually.

Comparable figures for 10 land grant universities in the Northeast and Middle West for the same period show an 18 per cent increase, or an average salary of \$14,202 today as compared to \$11,993 in 1959-60. The average Penn State salary for full professors in 1959-60 was \$11,232.

Comparable increases have been made in other academic ranks. The 12-month salary picture is as follows:

Rank	1959-60 Salary	1962-63 Salary	% Change
Professor	\$11,232	\$13,909	+24
Assoc. Prof.	8,903	11,026	+24
Asst. Prof.	7,459	9,190	+23
Instructor	6150	7,419	+21

Figures for the 10 land grant universities used for comparative purposes in the salary studies are:

Rank	1959-60 Salary	1962-63 Salary	% Change
Professor	\$11,993	\$14,202	+18
Assoc. Prof.	9,310	10,903	+17
Asst. Prof.	7,993	9,035	+13
Instructor	6,285	7,249	+15

Universities used in the comparative studies are Colorado State, Cornell, Illinois, Maryland, Michigan State, Minnesota, Ohio State, Purdue, Rutgers, and Wisconsin.

The tables exclude fringe benefits, such as contributions to hospitalization and retirement, and 75 per cent tuition rebates for children enrolled at Penn State.

The relative improvement notwithstanding, Dr. Walker commented, the salary structure is still too low for the University to take its place among the nation's great universities. The 1963 budget request to the Legislature includes a substantial sum for salary increases to enable the University to attract leading new faculty members as well as to hold present ones.

In maximum and minimum salaries paid, Penn State occupies a median position when compared to the other 10 institutions. At the professorial level, the maximum 12-month salary was \$24,000; maximum salaries paid by the other institutions ranged from \$16,579 to \$32,340. The University's 12-month minimum salary was \$9216; minimums of the other institutions ranged from \$7668 to \$12,250. It is interesting to note that the University reporting the \$7668

minimum also reported the \$32,340 maximum. The extensive spread reported by each institution indicates that most of them, including Penn State, use a merit system of salary increases.

The range of other 12-month salaries at the University are as follows:

Rank	Minimum	Maximum
Professor	\$9,216	\$24,000
Assoc. Prof.	7,260	16,128
Asst. Prof.	5,760	14,400
Instructor	4,464	11,520

Dr. Walker made the figures available in response to a request for salary information from Dr. William G. Mather, professor of sociology and president of the Penn State Chapter of the American Association of University Professors. He wrote Dr. Mather that he did not feel that AAUP's practice of converting all salaries to a 9-month basis fairly or accurately represented the true salary picture, since only 26% of faculty members are on the M type, or 9-month salary basis. Many universities pay on a 10-month basis, but expect 12 months of service, Dr. Walker said, while Penn State's 9-month, or M contracts, call for 36 weeks of service.

In arriving at its lettered rating schedules for universities, the AAUP also fails to give credit for state contributions to the retirement program, since the individual does not gain an equity in the state's contributions within a specified five-year period. Dr. Walker said he knew the faculty would prefer a retirement system in which the State's contributions are vested in the individual, but that it was impossible under the present state system. "Nevertheless," he continued, "when a man retires, his receipts from the State's contribution are just as real as those which are paid by him directly. We cannot see that eliminating them from the calculations is fair or presents a proper picture."

If all of these factors were taken into consideration, it is estimated that the "D" and "E" ratings which the AAUP regularly reports for Penn State would be converted to B and C ratings, and, in the case of instructors, to an A rating.

Faculty in A.A.A.S. meetings

THIRTY members of the faculty, along with seven graduate students or former students, will take part in the meetings of the American Association for the Advancement of Science at Philadelphia, Dec. 26-30.

Those to give papers (or are authors or co-authors of papers to be given by others) include the following:

Thomas Smyth, Jr., entomology, "The Anatomy and Innervation of Giant Muscle Fibers of the Barnacle, *Balanus Nubilis*," with Graham Hoyle, University of Oregon, at a session on Comparative Physiology.

Martin W. Schein, poultry husbandry, with **F. M. Hart**, zoology graduate student, "Male Sexual Behavior Induced in Female Turkeys by Brain Stimulation," in session on Animal Behavior and Sociobiology.

Fred J. Brenner, graduate student in zoology, "The Effect of Temperature and the Reproductive Cycle on the Reserve Energy Supply of the Red-Winged Blackbird," at session on Comparative Physiology.

John M. Mallette, agricultural biochemistry, and **Adam Anthony**, zoology, "Culture of Dissociated Thyroid Cells from Rats Exposed to Reduced Barometric Pressure," in session on Developmental Biology.

Adam Anthony, zoology, and **F. D. Ziegler**, graduate student in zoology, "Respiration and Phosphorylation in Liver Homogenates from Rats Exposed to Reduced Barometric Pressures," in session on Comparative Physiology.

John Vandenbergh, graduate student in zoology, "Aggressive Behavior in Starlings as Affected by Photoperiodic Manipulation," in session on Behavior Ecology.

Howard S. Hoffman, psychology, "The Analogue Lab: A New Kind of Teaching Device," in session on Learning and Study Mechanisms.

Rodney T. Houlihan, zoology, "Endocrine Adaptation to Chronic Environmental Stimuli," in session on Population Endocrinology.

John P. Hagen, radio astronomy, speaking on Vanguard and Viking, on Symposium on The History of Rocket Technology.

Ernest C. Pollard, biophysics, "Theoretical Studies on Absence of Mechanical Stress," in meetings of American Physiological Society.

Stuart Patton, dairy science, "Effects of Processing Factors in Quality of Dairy Products," in session on Dairy Products.

H. Seymour Fowler, nature education, "The Guidelines and the Institution" in the session on the Report of the NASDTEC-AAAS Studies.

Burton Voss, secondary education, "Great Experiments in Biology—A Summer Program for Academically Talented High School Students," at meeting of National Association of Biology Teachers.

Richard D. Schein, plant pathology, "Biometeorology in Plant Disease Forecasting," at meeting of American Meteorological Society.

Norman C. Deno, chemistry, "Determination of Carbonium Ion Stabilities from Hydride Transfer Experiments," in session on "Concurrent Symposium on Advances in Organic Chemistry."

George F. Deasy and **Phyllis R. Griess**, geography, "After Coal Is Strip-Mined, What Then?" in session on Symposium on Coal in the U.S., Problems and Promises.

Elizabeth L. White, and **William B. White**, geochemistry, "Processes of Cavern Breakdown," in meeting of National Speleological Society.

J. M. Warren, psychology, **Martin W. Schein**, poultry husbandry, **C. H. Beck**, and **Marlene Alpert**, "Learning Set Formation in Young Chickens," in session on Animal Behavior and Sociobiology.

In addition various members of the faculty either arranged programs for the meetings, are presiding at sessions, or are discussants of papers:

Edgar B. Hale, animal behavior, presiding at session on "Innate Behavior and Early Behavior," a joint session of the Division of Animal Behavior and Sociobiology and the E.S.A. section on Animal Behavior and Sociobiology.

Dale B. Harris, psychology, arranged and is presiding at a Symposium on The Concept of Maturity, program co-sponsored by the Society for Research in Child Development and the Psychology Section of the AAAS.

Merritt A. Williamson, Engineering and Architecture, coarranged and will preside over a program on "Forestalling Obsolescence in Technological Personnel."

Herbert A. Smith, secondary education, arranged program for the vice presidential address for Education Section, and discussant as science educator, on meeting of National Science Teachers Association on "Experimentation and Measurement."

Marsh White, physics emeritus, preside at session on Current Educational Problems in Physics.

George F. Deasy, geography, arranged symposium on Coal in the U. S., Problems and Promises.

David R. Mitchell, mining engineering, chairman of above Symposium.

John J. Schanz, Jr., mineral economics, discussant on above Symposium.

Richard H. Jahns, Mineral Industries, co-chairman of Part II of above Symposium.

Donald C. Jones, Mineral Industries continuing education, discussant in above session.

Dorothy Quiggle, chemical engineering presiding at meetings of Sigma Delta Epsilon, Graduate Women's Scientific Fraternity, as national president.

OFFICES

University offices will be closed from Friday, Dec. 21, until and including Wednesday, Dec. 26. They will also be closed Tuesday, Jan. 1. Offices and shops required for essential operations of the University will remain open during this period.

SENATE MINUTES

Meeting of December 4, 1962

The University Senate met at 3:55 p.m. on Tuesday, December 4, 1962, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the November 6, 1962 meeting were approved as printed in the Faculty Bulletin for November 16, 1962. One hundred fifty-one senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. K. Anders (R. C. Blaney), J. R. Bloom (R. D. Schein), D. H. Ford (J. D. Ashby), H. E. Goodwin (John Harrison), A. R. Grove (W. R. Mills), W. R. Grubbs (R. N. DeVinney), K. W. Hylbert (A. M. Wellington), E. L. Keller (T. S. Goas) (R. W. Lindsay (E. R. Ryba), D. R. McClay (N. K. Hoover), B. W. McCormick (G. F. Hall), E. R. Queer (E. C. Shuman), H. J. Read (C. H. Kropp), J. J. Reid (L. E. Casida, Jr.), C. F. Schaefer (J. M. Shemick), T. S. Spicer (H. L. Lovell), and C. W. Stoddart, Jr. (C. A. Morehouse).

New Senators

A letter was read from Jules Heller, Dean of the new College of Arts and Architecture, listing the names of the administrative and elected senators for that college effective January 1, 1963, as follows:

Administrative

Fishburn, Hummel; Heller, Jules; Weisman, W. R.; Hallock, P. F.; Walters, W. H.; Wilson, W. H.

Elected

1962-1963—Dickson, H. E.; Gullo, Frank; Hyslop, F. E., Jr.; Taylor, Willa C.

1962-1964—Adams, E. A.; Engass, Robert; Grube, R. L.; Neusbaum, F. S.

1962-1965—Hill, W. H.; Polakowski, K. J.; Smith, W. S.; Zoretich, G. S.

A letter was read from Ossian MacKenzie, Dean of the College of Business Administration that M. R. Sussman would replace H. A. Cutler for the balance of the 1962-1964 term.

A letter was read from Ben Euwenia, Dean of the College of the Liberal Arts, that H. E. Nelson would replace H. E. Dickson for the balance of the 1962-1963 term, and Neal Riemer would replace W. S. Smith for the balance of the 1962-1964 term.

The following letter from Dean W. Wharton, President of the Undergraduate Student Government, was read by the secretary:

I would like to thank the Senate for extending an invitation to attend its meeting to student members of the Senate Committees. Attendance should aid these students in recognizing their responsibilities to the various Senate Committees on which they serve.

This action is needed and greatly appreciated.

Reports of Standing Committees

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the addenda as Appendix "A" and moved that Items 1 A and 1 B be adopted. The

(Continued on page four)

PERSONNEL MATTERS

The following additions to the faculty were announced by the Executive Committee of the Board of Trustees last week:

Dr. Carroll C. Arnold, professor of speech, effective June 1, 1963. He has taught at Cornell University, where he was chairman of the department of speech, and at the Pennsylvania College for Women and University of Akron. He received the bachelor of arts degree from Sioux Falls College and master of arts and doctorate from the State University of Iowa.

Dr. Frank Brady, professor of English, effective July 1, 1963. He has been associate professor of English at Dartmouth College and has taught at Yale University and as distinguished visiting professor of speech at Michigan State University. He received his undergraduate training at Dartmouth and doctor of philosophy in English from Yale.

Dr. Charles Norval Cofer, professor of psychology, effective Sept. 1, 1963. He has been professor of psychology and director of graduate studies at New York University but is currently serving as visiting professor at the University of California, at Berkeley. He has also taught at the University of Maryland and George Washington University. His bachelor's degree was obtained from Southeast Missouri State College, master of arts in psychology from the State University of Iowa, and doctor of philosophy in psychology from Brown University.

Charles Crodel, distinguished visiting professor of art for the Winter Term. He is one of Germany's finest artists and has had paintings in all noted German exhibitions from 1922 to 1933 and from 1945 to the present. He taught painting and graphics at the Bavarian State Academy of Arts, Munich, Germany, since 1951 and at various other universities in Germany since 1922. He recently served as visiting professor at the University of Louisville. He is a graduate of the University of Jena, Germany, in archaeology and history of arts.

Dr. Philip R. White, visiting professor of botany for the Winter and Spring Terms. He has been senior staff member of the Jackson Laboratory, Bar Harbor, Me., since 1951 and previously served as a senior staff member with the Institute of Cancer Research and as fellow of the Rockefeller Institute. He was on the faculties of the University of Missouri, Yale University, University of Paris,

Iowa State College, and the University of Nebraska at various times. He received his bachelor's degree from the University of Montana and advanced degrees from the University of Washington and The Johns Hopkins University.

Dr. Wilbur Zelinsky, professor of geography, effective Jan. 1. He has been at Southern Illinois University since 1959 and has taught at Wayne State University, University of Wisconsin, and University of Georgia. He received bachelor and doctor's degrees from the University of California and master's from the University of Wisconsin.

* * *

A. Pauline Locklin, professor emerita of English, died Monday, Dec. 3, at Anchorage, Alaska, where she was teaching at the Alaska Methodist University. She had retired in 1961 after teaching at Penn State since 1924, and in those 35 years had specialized in English Renaissance lyric poetry, the works of Edmund Spenser, and in the 19th-century American literature.

Foundation

Elected members of the Board of the Directors of the Penn State Foundation will be limited to two successive terms as a result of action taken by the Board of Trustees last week-end.

However, individuals may be re-elected to the Board of the Foundation after elapse of a year following service of two terms.

The action was taken upon recommendation of the Foundation directors.

Community

The Penna. Department of Public Instruction Newsletter reports that prospects look bright for the establishment of community colleges in the Commonwealth.

"With wide support in many quarters for the program," the Newsletter says, "it is indicated that enabling legislation will be presented to the next legislature."

SAFETY FIRST

Faculty and staff members should follow several suggestions from safety supervisor, H. O. Tiebold, Jr., if they are responsible for Christmas trees in their offices or laboratories. (1) Keep the tree in water. (2) Use only Underwriter Laboratory-approved lighting fixtures; (3) keep the tree away from heat sources; (4) keep open flames away from the tree. Trees in University buildings must all be treated with fire-retarding materials.

Commonwealth

Authorization has been given by the Board of Trustees for the preparation of a master development plan for the New Kensington Campus.

Approved was employment of an architectural firm to develop the plan and promotional material needed in the fund-raising campaign the New Kensington Advisory Board has planned.

By 1970, as many as 1,000 students may be enrolled at the Center, which now has 99 students enrolled in associate degree programs.

Earlier this year, a tract of 30 acres was deeded to the University by the Aluminum Company of America for a campus four miles east of New Kensington.

* * *

Sketch plans for a new residence hall and a dining and student union facility at the Altoona Campus were approved by the Executive Committee of the Board of Trustees last week.

A three-floor structure with residence facilities for 200 students is planned. Nearby will be a dining hall capable of providing lunches for as many as 700 students, taking care of the luncheon problems of commuting students. Study lounges, student activities areas, meeting rooms, and a book store will be included.

The Altoona Advisory Board has been conducting a fund-raising program with a goal of \$650,000, of which more than \$555,000 has been received in cash or assurances. Construction of these and other buildings is planned.

Residence halls

The Board of Trustees has authorized University officials to proceed with plans for construction of additional residence halls with a capacity of 1,000 students, to be completed for occupancy by September, 1965.

Site of the new units is yet to be determined.

Dining halls and other facilities to accommodate 2,000 students are also included in the plans.

REMINDER

A reminder to faculty and staff members and to students has been given by the security department that no parking will be permitted in certain areas of the campus between 2 a.m. and 6 a.m. during the winter, to permit access of snow removal equipment.

Areas affected are: 1, 11, 14, 23, 30, 38, 40, 41, 46, 50, 61, 62, 70, and 80.

Senate--

(Continued from page two)

motion was seconded and passed. The complete report is on file in the office of the secretary.

Comments and Recommendations for the Good of the University

D. H. McKinley announced that Commencement would be held at 10:30 a.m. on Saturday, December 8 in Recreation Building with the acting marshal J. B. Nesbitt in charge.

President Walker took the opportunity presented by the shortness of the agenda to discuss with the members of the Senate a number of situations that the University is currently facing. He discussed the continuing need for additional office space, and for classrooms and laboratories, and discussed the procuring of additional space.

The President also discussed the current salary situation for the academic staff. He made it apparent that the position of the University relative to that of other institutions of the same type is improving. He plans to have published an analysis of the salary situation in the near future. He also discussed the developmental plans for the University as it affects the size of the undergraduate and graduate student bodies. He commented on the value to the institution of the current program for evaluating the academic departments.

President Walker expressed considerable concern about the present tendency for students to schedule overloads of course work. He expressed concern about the advisory system and expressed the feeling that further attention should be given to the advising of students in the selection of their course loads. Finally the President indicated how pleased he had been when he was told by a faculty member of the satisfaction he found in being a member of the faculty at Penn State.

The next regular meeting of the Senate will be on Tuesday, January 8, 1963; the agenda will be distributed on December 20, 1962. The meeting adjourned at 4:23 p.m.

Robert G. Bernreuter
Secretary

NATO takes over La Spezia

RESPONSIBILITY for the operation of the anti-submarine warfare research program at La Spezia, Italy, will be transferred on Feb. 1 from the Pennsylvania State University to the North Atlantic Treaty Organization.

The University, which operates the Ordnance Research Laboratory at University Park for the Department of the Navy, was requested in 1960 by the Department of Defense to manage the SACLANT (Supreme Allied Commander, Atlantic) Anti-Submarine Research Center at La Spezia.

The program was conducted under the subsidiary, SIRIMAR— (Italian contraction for International Society of Marine Research).

This Italian corporation, of which Dr. Eric A. Walker, president of the University, and Dr. E. F. Osborne, vice-president for research at the University, served as president and vice-president, respectively, will be dissolved as part of the transfer of responsibility from the University.

Dr. John Ide now serves as Scientific Director of the Center and has general scientific supervision of the program operated for the nine participating NATO countries.

In the agreement with the University, provision was made for University management of the program until June 30, 1963. The date for transfer of this management responsibility has been advanced, it is explained, to coincide with the effectiveness of an agreement under which multilateral financing of the program by the NATO nations will become effective on Feb. 1.

Reviewing establishment of the facility, President Walker today recalled that the United States late in 1957 voiced the need for increased cooperation in specific areas among the Nations of the Free World. As a result,

nine of the NATO nations joined in the effort of establishing the anti-submarine warfare research center, with the United States initially footing the bill.

The activity was initiated with American funds with the understanding that it would later become multilaterally financed and this has now been achieved with NATO taking over the operation.

The nations cooperating in the project have been Canada, Denmark, France, West Germany, Italy, Netherlands, Norway, United Kingdom, and the United States, under treaty.

Research policy is provided by SACLANT, with a NATO scientific council serving in an advisory capacity to SACLANT.

The site, La Spezia, evolved from an offer by the Italian Navy of a suitable building and other facilities there.

Book available

A number of copies of the book, "The Pennsylvania Painters," which makes a suitable Christmas gift, are available at Pattee Library, Room 101.

The book was prepared during the Centennial Year in connection with the exhibit of the 48 selected paintings by Pennsylvanians from the early 18th to the 20th century. Paperback copies are 50 cents.

faculty BULLETIN

Vol. 50, No. 22 Dec. 14, 1962

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32



faculty

BULLETIN

Weekly Publication
the Pennsylvania
State University

Reading Center

The University Reading Center will offer, winter term, a non-credit course in reading improvement. The course is open to all students enrolled at Penn State. Classes begin one week after regular classes (Monday, January 14), and will conclude one week before the end of the term.

This course is designed to help college students improve reading skills and to reduce or remove faulty habits which act as barriers to both speed and comprehension in reading. Students who enroll will meet twice a week in regularly scheduled class periods (Room 201—Chambers Building). Faculty members are invited to call this service to the attention of students and advisers. Several points should be kept in mind:

1. This course is not "remedial" in nature and is not specifically designed for the lowest 10-15 per cent in academic achievement. The course is open to all students, undergraduates and graduates.
2. The course is not primarily a "speed reading" course, although improving rate of reading is one of the goals.
3. In regard to student load—the course does not involve outside reading assignments. It is hoped that students will practice more efficient habits outside of class in relation to the reading they do for other courses.

Students may enroll during the regular enrollment period (Secondary Education 105), or in Chambers Building, Room 201, Jan. 7-11. For additional information, call Prof. Arthur Heilman, director of the Reading Center, UN 5-2873.

Epiphany service

A Midnight Epiphany Service will be held at Schwab Auditorium Saturday, Jan. 5, beginning at 10:40 p.m. with a Prelude Concert.

The Service replaces for the year the Chapel Candlelight Service given traditionally by the University Chapel Choirs in December.

Mrs. Willa Taylor will direct the choir in a program which will include works by Gabrieli, Byrd, Thomas Weelkes, John Joubert, and Daniel Pinkham.

Dr. Leonard Raver, Mrs. Overda Page, and Raymond Page will combine in the prelude concert with music for organ, flute, and viola. Dr. Raver will play a Brahms work for the offering and Daquin's "Noel Suisse," for the postlude.

The Service will be conducted by the Rev. P. Barrett Rudd, acting director of the U. C. A.

Television

The University-produced television program, "Second Chair," will resume Monday, Jan. 7, at 9 a.m. over WFBG-TV, Altoona, Channel 10. The program for the week will feature Dr. Laurence Lattman, associate professor of geomorphology, and Dr. Jeannette Veatch, associate professor of elementary education, discussing "Education's Problem—Especially as it Pertains to the Training of New Teachers."

Nuclear doctorate

A doctoral program in nuclear engineering has been established, effective with the Winter Term. The University is the first in Pennsylvania to offer such a program.

Nuclear engineering is concerned with the release, control, and utilization of energy from nuclear processes. The nuclear engineer applies the principles of these processes in the design, development, and operation of nuclear systems.

SOCIAL SECURITY

Distribution was begun this week of materials which explain changes in Social Security contribution rates to become effective Jan. 1.

The increased deductions will be reflected in all salary checks received during the month and in the future.

Full or part-time employees who did not receive a copy of the letter explaining the changes may do so from their Personnel Representative or from the office of the Division of Personnel Services.

Artists Series

Janos Starker, one of the world's outstanding cellists, and Gyorgy Sebok, brilliant Hungarian pianist, will give the next Artists Series concert Saturday, Jan. 12, at 8:30 p.m. in Schwab Auditorium.

Tickets will go on sale at the HUB desk Thursday, Jan. 10.

Starker and Sebok were together at an early age in Hungary, teaming with violinist Ferenc Akos to give concerts in Hungary. In 1946 Starker left Hungary and Sebok began a career as international soloist. Starker came to the U. S. in 1948 and has since won acclaim as one of the world's outstanding cellists, rivalling Casals and Feuerman. Sebok and Starker formed their duo in the 1959-60 season when Starker returned to Europe for concerts.

Architecture

Exhibits of the work of architecture students at 11 colleges will begin Jan. 9 in Room 300 Sackett.

The round robin exhibition series will open with the works of North Carolina State University students, continuing until Feb. 2. Other schools to be represented are Virginia Polytechnic Institute; Hampton Institute, Syracuse University, University of Toronto, University of Detroit, University of Michigan, University of Notre Dame, Miami University of Ohio, University of Cincinnati, and Penn State.

Robert J. Napier, assistant professor of architecture, and the student chapter of the A.I.A. assembled the Penn State exhibit.

Conference

College of Agriculture faculty members who will take part in the 17th annual Northeastern Weed Control Conference Jan. 9-11 in New York are:

C. J. Noll, horticulture, chemical weed control in cucumbers, lima beans, and tomatoes.

George H. Bergtten, extension agronomist, weed control in small legume seedlings and corn.

Stephen M. Raleigh, agronomy, quackgrass control and pre-emergence weed control in corn. Also report for a committee concerned with field corn, soybeans, and small grains.

Frank N. Hewetson, horticulture at Ardenstville, herbicides for deciduous orchards.

Chiko Haramaki, ornamental horticulture, pre-plant weed control in annual flowers and post-transplant applications of granular herbicides in annuals.

Arts To Advance

WITHIN the next few years, Dr. Jules Heller hopes the arts at Penn State will reach some proud and exciting goals; he is, in fact, counting on it.

At the start of the new year, the College of Arts and Architecture came into official existence and so one step in the progression has been accomplished. It is not the first, because in the past few years many steps have been taken to advance the arts at Penn State, but it is a very significant one in presenting the correct image to the outside world of the status of music, the studio arts, art history, theatre arts, architecture, and all of the other art forms.

"Those of us in the arts have been trying for some time to obtain proper recognition of the arts at Penn State, Dr. Heller says. "Now we will work for proper recognition of our accomplishments.

"I see no reason why Penn State cannot be a leader in the arts."

Dr. Heller points out several developments in the past several years as good proof that much can be done. The list is impressive.

1. Expanded programs of exhibits, not only of works of students and faculty, but also of renowned artists and collectors from everywhere.

2. Bringing outstanding people in the Distinguished Visiting Professor program: Dr. Hugo Weisgall, Dr. Martin Weinberger, Denis Stevens, Charles Crodel.

3. Quartet-in-Residence program, which has brought already the Curtis and Alard String Quartets.

4. An aggressive theatre arts program which is constantly expanding.

5. An outstanding Artists Series program which brings many of the very best artists.

6. Fine performances by faculty and students of the best musical works.

"It is only a partial list, of course," Dr. Heller explains, "but it includes enough for me to illustrate the point I want to make, namely, that we do not even at this point have to apologize for our cultural atmosphere, at least so far as the arts are concerned, and in the future I believe that it will be other universities that compare themselves to us.

"I hope it will be perfectly clear that in citing these examples I mean to include the total effort of the University, because I am certain that we will be judged not only by what is accomplished within the College but also by the rest of the University."

One of the steps Dr. Heller expects to take to strengthen the overall pro-

gram is to add to the faculty many outstanding performers, scholars, and other artists as teachers because he believes that by example they will help to awaken and encourage the talent in our students. He has no hesitancy in predicting that they will want to come.

"We have much to offer performers," he says, "and I don't for a minute think we are too isolated to attract them. On the contrary, we are relatively near many centers, and the fact that we are not in the middle of one may be a virtue. Further, our university audiences demand and respond to qualitative work, thus inspiring staff and visitors to give their very best.

"Artists of all kinds like to be with other artists, it is true, and there is no reason they can't be together on this campus. Many love to teach, and enjoy the excitement of the dialogue in the studio, classroom, or drafting room with young, inquiring minds.

"It is not my original conclusion, but one in which I concur, that in the future the great universities will be the home of the professional artist. Professional schools of art, music, and theatre, unless they establish ties with a university, will cease to exist."

Aside from the development of the permanent faculty, Dr. Heller believes that more artists of all kinds will be in evidence for short time or temporary periods, for demonstrations or lectures, for criticisms, for consultation with the permanent faculty, for spot performances or events with the permanent faculty and students, or for meetings.

"We will have specialists in all fields, and they will complement each other in their work," says Dr. Heller.

Not only will this College faculty have an effect on the students but on the University faculty generally, on the community, and, by extension, the entire Commonwealth.

"The complex and complete resources of a university like Penn State constitute one of the best arguments for professional artists to become a part of it," Dr. Heller believes. "Not only does he have a good medium for displaying his talents — as we might

be able to provide with a statewide television network — but he also has many sources of inspiration for his own creativeness."

As for the students, Dr. Heller believes they should be exposed to excellence in the arts. Ultimately, students will come not only for purposes of learning to be architects, designers, composers, actors, directors, art historians, painters, but also performers in other arts. More and more will take graduate work, as the staff and facilities permit.

"We have some additional requirements of a physical nature, even after the new Arts and Humanities building is completed: a proper art museum to house our growing permanent collection with dignity and also to provide space for travelling exhibitions and other visual needs; a great library of the arts and architecture situated near or in our new complex; new space for the departments of architecture and landscape architecture within our new area.

We do very well with our present arrangements, but we could use more galleries of a permanent nature for a serious study of primary materials in art and architectural history. I have been very pleased that some major art works have been loaned to us: it demonstrates the faith that others have in us and the recognition that we have the students and public to appreciate them."

At some time in the future, and perhaps not too distant a time, outsiders will recognize that Penn State is serious about the arts and can contribute much if given the proper aid. Endowments fall in the chicken-or-egg category: you can get them if you are good; you can become good if you have endowments.

"Our whole development is in something of the same position," he concludes. "As we get better, others will want to help us improve still further. I'm certain that we should reach high; Penn State is going to be a leader in the arts."

Plane supplied

A single-engine, four-seat Piper "Cherokee" airplane has been provided by the Piper Aircraft Corp., of Lock Haven, to be used by the department of aeronautical engineering primarily to instruct students in the techniques of flight testing.

It will also be used to support research programs in the department, and be made available to other departments to support research programs.

PERSONNEL MATTERS

CALENDAR

SATURDAY, JAN. 5

Registration and orientation end, 12 noon.
Varsity wrestling, vs. Lehigh, 7 p.m.
Varsity basketball, vs. Temple, 9:15 p.m.
Epiphany Service, 10:40 p.m., Schwab Auditorium. Music by Chapel Choir, Dr. Leonard Raver, Mr. and Mrs. Raymond Page, and brass ensemble.

SUNDAY, JAN. 6

University Chapel Service, 10:55 a.m. Dr. Gordon Harland, associate professor of church history, Drew University, on "The Emancipation Proclamation."

MONDAY, JAN. 7

Winter Term classes begin, 8 a.m.

TUESDAY, JAN. 8

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson, Bernard Oldsev, assistant professor of English.

Penn State chapter, American Society for Metals, meeting, 7:30 p.m., Mineral Industries Auditorium. Paul A. Archibald, chief metallurgist, Standard Steel Works, Burnham, Pa., on "Vacuum Processes for Space-Age Forgings."

University Senate meeting, 3:55 p.m., Room 121 Sparks.

FRIDAY, JAN. 11

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Raymond Sedney, Army Ballistic Research Laboratories, Aberdeen Proving Ground, on "Nonequilibrium Flow over Wedges, Cones, and Corners."

Senate meets

The University Senate will meet Tuesday, Jan. 8 at 3:55 p.m. in Room 121 Sparks.

FACT CARDS

The wallet-size fact cards, which give information concerning the University in a concise form, are once again available from the office of Reed Ferguson, director of University relations. Call 5-2522.

Postal Rates

Departments are reminded that new postal rates go into effect Monday, Jan. 7. Postcards will require 4c, first class mail 5c per ounce, and air mail 8c per ounce.

Floyd A. Hummel, professor of ceramic technology

Dr. Darrell E. Walker, who has



F. A. Hummel

been serving during 1962 as acting head of the department of horticulture, has been named head of the department and professor of plant breeding. He has been a member of the faculty since 1954. He is a graduate of Nebraska State Teachers College and was granted the doctor of philosophy degree by the University of California at Berkeley.



D. E. Walker

Dr. Joseph P. Guisti, who completed requirements for the doctor of philosophy degree in December, has been named assistant to the vice president of resident instruction, effective Jan. 1. A graduate of Villanova University, he received the master of science degree, with major in business administration, in 1959 from Penn State. His doctorate was granted in higher education with a minor in business administration. He has taught business administration courses at St. Vincent College and Penn State and during the past year handled the counseling and scheduling of freshmen enrolling in the College of Education.

Dr. Zbigniew Folejewski, professor of Slavic languages at the University of Wisconsin, has been named professor of Slavic languages here, effective July 1. He is currently serving as visiting professor at the University of Toronto. A native of Poland, he was given elementary and secondary education in Russia and Poland. He was granted the master of arts degree by Wilno, Poland, University, and three doctor's degrees from Uppsala University, Sweden.

Tyree R. Horn, assistant professor of engineering at the York Campus, died Friday, Dec. 7, at the age of 63, after a short illness. He joined the faculty in 1955, after serving in the U. S. Army from 1920 until his retirement as colonel in 1951. He was a graduate of the Military Academy at West Point and was granted the master of science degree by Harvard University in 1930. He saw service in many countries and received decorations from the British and Italian governments and the Legion of Merit from the United States.

Dr. H. Mauzee Davis, who retired Nov. 1 after 26 years of research and teaching, has been named professor emeritus of chemical metallurgy. He has accepted a position as director of metallurgy and ceramics research at the U. S. Army Research Office, Durham, N. C.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
National Science Foundation	\$36,300	Summer institute in mathematics	T. C. Benton
ibid.	100,700	Summer institute in the biological and physical sciences	W. H. Powers
Ford Foundation	64,500	Pedagogic training program for young engineering teachers	O. E. Lancaster
Air Force Systems Command	80,000	Ionospheric research	A. H. Wavnick
Penna. Rural Safety Council	1,000	Teaching methods in Fire Arms Safety Campaign	Frank Anthony
U.S.D.A.	6,000	Market analysis of processing and marketing of maple syrup and other maple products	J. K. Pasto
Penna. Dept. of Highways	24,300	Severance damage	J. C. Frey
Cooperative C.L.F., Inc.,	1,000	Meat from male Holstein calves	E. M. Kesler
National Science Foundation	4,000	Carbonaceous rocks and rock sequences	Wm. Spackman
U. S. Army Ordnance	17,443	Internal blast waves in spheres	Norman Davids
I.B.M. Corp.	varied	Fellowship in either physics, chemistry, chemical engineering or electrical engineering	H. K. Schilling

Instructional Services Division

EFFECTIVE Dec. 15, the Division of Academic Research and Services (DARS) was discontinued and many phases of its work are being transferred to the new University Division of Instructional Services (UDIS).

General responsibility for UDIS is charged to the Vice President for Resident Instruction. Director of the Division is Dr. C. R. Carpenter, who also headed DARS, and Leslie P. Greenhill is associate director.

The basic purpose of UDIS is "to cooperate with department faculties and to support in all possible ways the instructional activities of the University; to assist faculty members to design, secure and produce instructional resources and materials, and to advise concerning the skills, methods, and facilities related to the effective learning of students."

Six basic services are offered by the Division to colleges and departments of the University and to individual faculty members:

1. Examination and test service, supervised by R. E. Spencer, to assist in the construction, improvement, analysis, and scoring of examinations.
2. Television Services (production supervised by Luther F. Kepler), to provide facilities and personnel to support the instructional programs and to help in development and adaptation of courses for television.
3. Motion picture services, supervised by Delmer P. Duvall, to produce motion picture films for instructional use and research projects.
4. Still photography, supervised by Edward Leos, to make photos and slides.
5. Graphic services, supervised by Paul Stevenson, to prepare visual materials for use in televised and other courses.
6. Instructional Research and Develop-

ment Services, to aid departments in developing courses, planning and evaluating new instructional methods and procedures for research on important aspects of instruction and learning.

The specific responsibilities of the Division are outlined in the following way:

1. Assist in the development of courses, curricula and programs of instruction.
2. Assist in the procurement and use of television, motion pictures, radio, recordings, tapes, photography, graphics, models, simulation, etc., and combined systems of instructional materials and instrumentation.
3. Assist in the development of tests, examinations and evaluations of teaching and learning and provide the necessary related scoring services and data processing.
4. Participate in cooperative inter-disciplinary research and development programs which have the purposes of improving and making effective the materials, methods and conditions of learning for college and university students.
5. Participate in appropriate professional organizations and enterprises pertinent to the purpose of the Division.
6. Keep informed of promising new instructional developments, introduce and test appropriate ones of these at the University, and report the results.

Dr. J. R. Rackley, vice president for resident instruction, points out that certain of the responsibilities of DARS were not appropriate for the purposes and responsibilities desired in the new division and these will be phased out or transferred at the earliest practicable date.

"The University Division of Instructional Services," he adds, "will work with departments and individuals in many ways. The old DARS was identified in the minds of many

faculty and staff members with television production, and especially in studying how to adapt television to the instructional program.

"I hope that new research will be undertaken by departments, with the help of UDIS, to determine how, for example, television can serve uniquely in advancing the instructional program.

"But I think it is important to recognize that television production and research is only one phase of the Division's responsibilities and that UDIS will be called on by the faculty to help in all the ways it can within the framework of the duties as they have been outlined."

Coogan fund

A Memorial Fund has been established honoring the late James H. Coogan.

Coogan, until his death while addressing an alumni group at Haddonfield, N. J., on April 12, had been director of public information at the University. Earlier, he had served as director of sports information.

The Fund was established by the Penn State Class of 1930, which Coogan served as secretary, but in organizing the Fund, F. Bruce Baldwin, of Philadelphia, president of the class, emphasized that gifts from others who were not members of the class will be welcomed.

The Fund is planned to help worthy students needing financial aid to meet necessary educational expenses. Loans from the Fund will be administered by the University and shall be free of interest until the student receives his baccalaureate degree or leaves the University.

faculty BULLETIN

Vol. 50, No. 23 Jan. 4, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

The Arts

Two Artists Series programs will be presented within the next week.

Saturday, at 8:30 p.m. in Schwab Auditorium, **Janos Starker**, cellist, and **Gyorgy Sebok**, pianist, will play a program consisting of the following:

Bach's "Sonata No. 2 in D Major."

Beethoven's Seven Variations on "Bei Männern, welche Liebe fühlen," from Mozart's "The Magic Flute."

Hindemith's Sonata, Opus 11, No. 3.

Mendelssohn's "Sonata in D major, Opus 58."

Tickets for this concert went on sale Thursday, Jan. 10. If any remain, they will be on sale to the public also on Friday, Jan. 11.

Ruggiero Ricci, violinist who at the age of 9 in 1929 was acclaimed as a born virtuoso, will play Thursday, Jan. 17, at 8:30 p.m. in Schwab Auditorium.

Tickets for this performance will be on sale to the public Tuesday and Wednesday, Jan. 15-16.

Now averaging over a hundred appearances a year in solo concerts, Ricci has played in concert halls from Hong Kong to Helsinki and from Buenos Aires to Boston, and including five major cities in Russia. He has made seven appearances in one season with the Boston Symphony and has played with virtually every important concert and radio orchestra in Europe.

Ricci's program will include the following:

Nicola Popora's "Sonata in G Major."

Beethoven's "Sonata in A Major, Opus 47 (Kreutzer)" Prokofiev's "Sonata in D Major, Opus 94."

Ravel's "Tzigane."

Graduate lecture

Dr. Robert Bruce Lindsay, noted physicist and dean of the Graduate School at Brown University, will be the speaker in the Graduate School Lecture Series on Tuesday, Jan. 15, at 8 p.m. in Room 121 Sparks.

He will talk on "Value Judgments in Science," and will discuss the scientist's selection of preferences in theorizing and the importance of such value judgments in the future of science.

Dr. Lindsay, who has been a speaker at Penn State previously, is a prolific writer and lecturer. Among his books are "The Role of Science in Civilization" and "Physical Mechanics." He has been a member of the faculty at Brown since 1930 and taught at Yale previously. Some of his graduate work was taken under Niels Bohr and H. A. Kramers in Denmark, on the subject of the quantum theory.

Brotherhood banquet

Rabbi Elias Charry, Germantown Jewish Center in Philadelphia, will be the speaker for the annual Brotherhood Banquet, sponsored by the University Committee on Inter-Religious Affairs, Tuesday, Feb. 12.

He will speak on "The New Emancipation Proclamation."

Rabbi Charry, who for many years has been active in Zionist educational and communal endeavors, is vice-president of the Philadelphia Zionist District and president of the Philadelphia Zionist Council. He has served as Rabbi for congregations in Youngstown, Ohio, and Indianapolis, Indiana.

Tickets for the banquet are now available and may be obtained by calling the Chapel office, UN 5-6548, or at the HUB desk.

Recreation program

The Faculty Women's recreation programs organized by the faculty of the College of Physical Education have resumed; swimming, Tuesdays and Thursdays from 3 to 4 p.m.; bowling, Tuesdays and Thursdays, 2 to 3 p.m.; badminton, Tuesdays and Thursdays, 3 to 4 p.m.; and dance and exercise, Thursdays, 7:30 p.m. All activities are held in White Building.

Tensions

A series of informal meetings on the general theme of "International Tensions and Their Possible Resolution," for the benefit of faculty and students, will be held on Tuesday afternoons during January and February under the sponsorship of the Peace and Social Order Committee of State College Friends Meeting.

The first meeting will be held on Tuesday, Jan. 15, at 4 p.m., HUB assembly hall, when Charles C. Walker of the American Friends Service Committee will speak on the topic "Dare We Hope for Peace?"

Later speakers will include Clarence Thurber (political science), Roland Warren of Alfred University (American Friends Service Committee International Affairs Representative in Berlin), William Prokasy (psychology), and Marvin Rozen (economics).

All interested persons are invited to participate; discussion will be encouraged. The exact times and places of the meetings will be announced when available.

Radio series

A new series of radio programs, featuring University faculty members discussing the problems to be faced by incoming Governor Scranton, is now being broadcast by 18 Pennsylvania stations, including outlets in Philadelphia, Pittsburgh, Scranton, and Harrisburg.

The programs include Dr. William Monat, associate professor of public administration; Dr. Kenneth E. Beasley, associate professor of public administration; Dr. William G. Mather, professor of sociology; John W. Bergstrom, instructor in agricultural economics extension; Dr. Gordon C. Godbey, assistant dean of the College of Education; and Dr. Jacob Kaufman, professor of economics.

Library tour

A talk on library materials, followed by a tour of Pattee Library has been arranged by the Reference staff for graduate students, Wednesday, January 16, 7:15 to 9:00 p.m. in Room 105 Pattee.

Faculty members are asked to call this tour to the attention of their graduate classes. Students should sign at either the Reference or Information desk so that enough guides may be provided. Another meeting can be arranged if students are not able to come at this scheduled time.

Attention is directed to the "Library Handbook for Faculty and Graduate Students, 1961, page 22, for information about library instruction offered to classes.

Library business up

LIBRARY personnel are accustomed to periods of great activity followed by relative quiet.

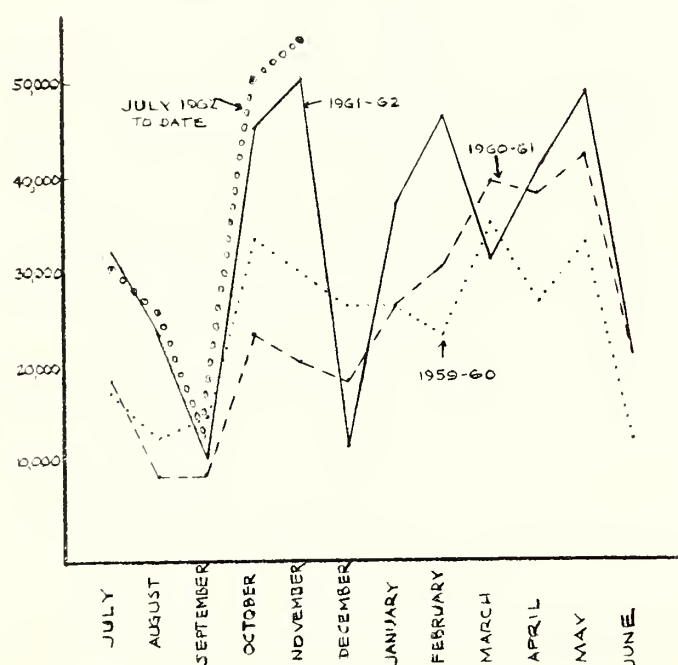
The peaks and valleys of library business, whether a public or university library, are accepted fact, to be contended with as best as one can within the limitations of time and of money for extra personnel when the peaks occur.

"The spread between the peaks and valleys of Pattee Library may have been accentuated by the term system," says Mrs. Margaret K. Spangler, assistant librarian. "We can accept the fact that variations in circulation and reference business will occur, but we must do everything we can to reduce the impact of these variations.

"We are interested in doing so pri-

from time to time but of much smaller order in previous years.

The most obvious observation from the graph is that circulation problems now are being squeezed into a much smaller period of time than in former years. Complicating the problems of the (main) Library still further, total circulation in-



Circulation statistics of last few years for Pattee Library demonstrate how library use varies drastically from month to month. Term system may accentuate peaks and valleys.

marily to provide the most effective service possible. The Library can take certain steps on its own; the help of the faculty is needed in other steps, to make the library more useful to everyone."

The accompanying graph dramatically illustrates what has happened to circulation at Pattee Library since July, 1959. Two of the lines represent data taken before the term system was adopted. The 1961-62 line and the segment of 1962-63 already completed represent data under the term system.

Summer months are, for obvious reasons, periods of relative quiet, or have been in past years. From October through May, variations occur

creased by 67,933 volumes (19.6 per cent) in 1961-62 compared to the previous year.

For the 1959-60 and 1960-61 years, there was a fairly steady increase in total circulation from September until the end of May. Dropoffs occurred in December and at Easter, but generally there was a much less dramatic reduction than that shown in 1961-62. In the latter year, high circulation totals are shown for two-month periods, three times in the year, and when reductions took place they went below the totals of the other two years. Data so far this year indicates the same trend.

"The significance of this data," says Mrs. Spangler, "lies not so much

in the fact that the drastic reductions took place but in the fact that the use of library materials is crowded into relatively short periods of time.

"It means that there are more occasions when there will be long lines at the circulation desk and more occasions when needed materials are out."

Such heavy demands lead to other problems, Mrs. Spangler adds. For example, if the library isn't able to prepare for them adequately, more materials are mutilated and more books lost.

Faculty members can help the Library provide better service in several ways: (1) give students, early in the term, a complete schedule of materials they will have to refer to so that they can, if efficient, plan earlier sessions in the library; (2) keep the Library informed of the reference and circulation materials that will be required, especially if an unusually heavy demand can be expected.

"Last year," explains Mrs. Spangler, "we had an unusually heavy run on United Nations materials because instructors in three different areas of study referred their students to these materials. Probably no one instructor felt that his requirements were unusually heavy, but adding all three at the same time created problems for us.

"In this case, as in many others, had we known beforehand of the problem we could have duplicated the source materials and had more copies on hand."

Not only does the main library encounter the problems of heavy use but so do the branch libraries. Sometimes the problem is further complicated in the branch libraries by the fact that faculty members in one college will assign materials in the library of another without giving librarians adequate notice.

Obviously some problems of circulation exist because borrowers do not return books on time. Faculty members themselves, as well as students, are guilty of the practice, albeit sometimes they do it unwittingly.

Shobaken art

Recent works by Bruce R. Shobaken, assistant professor of art, are on exhibit in the mezzanine gallery of Chambers Building, sponsored by the department of art education. Primarily landscapes, the paintings were most recently exhibited at the University of Minnesota. The exhibit will continue until Jan. 16.

Minnesota plan

Mrs. Elizabeth L. Cless, Co-director of the Minnesota Plan for the Continuing Education of Women at the University of Minnesota, will speak on Wednesday, January 16, at 3:55 p.m. in Room 207, Home Economics South Building.

The meeting, sponsored by the College of Home Economics and Continuing Education, is open to all faculty of the University and others who are interested in learning about the Minnesota Plan which is gaining national recognition.

Under a Carnegie Corporation Grant of \$110,000, the Minnesota Plan for Women was established as a three-year pilot project in the Spring of 1960. The principal objective of this program is to encourage able women to plan realistically for the kind of interrupted, multiple-role lives which most of them will inevitably lead, and to increase the nation's resources of educated woman-power. The Minnesota Plan is carried out through the resident and general extension divisions of the University.

O'Hara papers

The documents and manuscripts of "The Big Laugh," one of writer John O'Hara's recent best-sellers, have been presented to the Library by the author.

Typescripts, galley proofs, and page and plate proofs of the novel will be housed in the Rare Book Room of Pattee Library and will be available to qualified scholars.

These items, along with others which O'Hara presented to the Library in 1961, are currently on exhibit in the Library. Typescripts and proofs of his novel, "Sermons and Soda-Water" and documents from the book, "Assembly" are part of the collection.

Genetics, behavior

A series of four lectures on the general subject of genetics and behavior, sponsored by the department of psychology for students and faculty of the entire University, will begin Wednesday, Jan. 16, at 8 p.m. in Room 101 Chambers Building.

Dr. Jerry Hirsch, University of Illinois, will speak on "The Impact of the New Biology on the Study of Behavior. Other lectures will be announced next week.

The public lectures are an adjunct to a course in behavioral genetics.



Representation of a human blood cell is one of the photographs in the exhibit provided by The Upjohn Co., of Kalamazoo, Mich., now hanging in the 105 Gallery of Temporary Classroom Bldg. Arranged by Edward A. Adams, assistant professor of art, the exhibit will be of interest not only because of the high quality of photography but because of the scientific nature of the subject matter, taken from the field of medical and biological sciences. The gallery is open Monday through Friday, 9 a.m. to 5 p.m.

Maple Room lunch

Luncheon service at the Home Economics Maple Room will be resumed this week. Students in Quantity Foods Production classes prepare the meals, which are served Monday through Friday from 11:45 a.m. to 12:45 p.m. No dinner service will be provided during the Winter Term.

AAUP meeting

The local chapter of the American Association of University Professors will meet Monday, Jan. 14, at 7:30 p.m. in Room 101 Chambers. A general discussion of improving faculty participation in University decision-making will be held.

The Faculty Luncheon Club will hear Dr. Otis E. Lancaster, George Westinghouse Professor of Engineering Education, at its meeting Monday, Jan. 14, at 12:30 p.m. in HUB dining room "A." He will speak on "Programs in Engineering for Improving Instruction."

All members of the faculty are invited to attend the weekly meetings. Tickets for lunch are obtainable at the HUB desk.

Loan funds added

Two new loan funds have been established to aid students of the University:

The Francis R. Stakelum Memorial Loan Fund, established to honor a former partner in the Allegheny-Seaboard Oil Corp. by a gift of \$5,000 by a nephew. Loans will be made to students in the liberal arts, with first preference to political science majors. Mr. Stakelum was particularly concerned that people in government office should be educated for the position. The donor hopes the fund will help to produce the kind of citizenry which will be trained for government service.

The Andrew A. Borland Memorial Loan Fund, established by his widow, his son Gerald C., of Westfield, Pa., and his daughter Margaret Borland Hartzell, Redland, Calif. Loans will be made to students in agriculture, with preference to dairy science majors. Mr. Borland served on the faculty for 34 years, 29 as head of the dairy science department, retiring in 1948 as professor emeritus. He died in 1958. The dairy building and creamery is named for him.

CALENDAR

Friday, Jan. 11

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Al N. Mulay, University of Cincinnati, on "Magnetic Anisotropy and NMR Studies in Modern Materials."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Raymon Sednev, Army Ballistic Research Laboratories, Aberdeen Proving Ground, on "Nonequilibrium Flow over Wedges, Cones, and Corners."

Interlandia Folk Dances, 7:30 p.m., HUB ball room.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Charles Ferster, director of the Institute of Behavioral Research, University of Maryland, on "Basic Research in Behavior as a Foundation for Programmed Instruction."

Saturday, Jan. 12

Artists Series, 8:30 p.m., Schwab Auditorium. Janos Starker, cellist, and Gyorgy Sebok, pianist.

Varsity wrestling, vs. Maryland, 8 p.m., Rec Hall.

Sunday, Jan. 13

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gene Bartlett, president, Colgate Rochester Divinity School, on "Our Most Audacious Belief."

Hillel Foundation Graduate Students Lecture Series, 8 p.m. Dr. Rustum Roy, professor of geochemistry, on "The Need for Ethical Values."

Monday, Jan. 14

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Otis E. Lancaster, George Westinghouse professor of engineering education, on "Programs in Engineering for Improving Instruction."

Meeting of Penn State chapter, American Association of University Professors, 7:30 p.m., Room 101 Chambers.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. G. U. Oppel, on "New Stress Analysis Method for Metals Based on Hardness Tests."

Graduate School Enrollment, 1940-1962 and Comparison with Total Enrollment in same years

Year	Full Time	Part Time	Total	%	Year	Full Time	Part Time	Total	%
1940			550	7.2	1954	460	874	1334	9.3
1945			380	7.4	1955	441	1007	1448	9.4
1946			695	8.0	1956	481	1001	1482	9.3
1947			807	7.7	1957	550	1101	1651	8.6
1948			987	6.9	1958	639	1241	1880	9.4
1949			1380	9.4	1959	693	1248	1941	9.5
1950			1438	10.8	1960	817	1287	2104	9.7
1951	494	857	1351	10.7	1961	694	1458	2152	9.4
1952	563	846	1409	11.0	1962	693	1438	2131	9.0
1953	502	835	1337	10.5					

Note: Per cent indicates the relation between graduate student and total enrollment for fall term or semester.

Tuesday, Jan. 15

First of series of discussion on theme, "International Tensions and Their Possible Resolution," sponsored by the Peace and Social Order Committee, State College Friends Meeting, 4 p.m., HUB assembly room. Charles C. Walker, American Friends Service Committee, on "Dare We Hope for Peace?"

University Park Federal Credit Union annual meeting, 8 p.m., Room 111 Boucke. Business meeting and election of officers.

Wednesday, Jan. 16

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Cullen Sabin, Stanford University, on "A Turbulence-Free Shear Layer in a Pressure Gradient."

Thursday, Jan. 17

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. John C. Bailar, Jr., University of Illinois.

Meeting of faculty of College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

American Chemical Society meeting, 8 p.m., Room 112 Buckhout. Dr. Paul D. Boyer, professor of physiological chemistry, University of Minnesota, on "The Enzymatic Formation of ATP."

International Film, "The Strange Passion," 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk.

Psychology Colloquium, 8 p.m., Room 111 Boucke. Dr. David S. Palermo, University of Minnesota, on "Children's Word Association and Verbal Behavior."

Friday, Jan. 18

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. R. J. Watson, Socony-Mobil Oil Co., Dallas, Texas, on "Recent Advances in Seismic Prospecting."

Interlandia Folk Dance, 7:30 p.m., Room 105 White Building.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Prof. Alexandre Favre, directeur de l'Institut de Mecanique Statistique de la Turbulence, Marseille, France, on "Momentum and Energy Balance in a Turbulent Boundary Layer."

The Federal Excise Tax on travel by rail, bus, and water terminated on November 15, 1962. The tax on air transportation, however, was reduced from 10¢ to 5¢ on November 15, 1962 and will terminate on June 30, 1963. Staff members traveling by air on official University business should continue the use of Exemption Certificate (TD Form 731) until June 30, 1963.

faculty BULLETIN

Vol. 50, No. 24 Jan. 11, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Jan. 18

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. R. J. Watson, Socony-Mobil Oil Co., Dallas, Texas, on "Recent Advances in Seismic Prospecting."

Interlandia Folk Dance, 7:30 p.m., Room 105 White Building.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Prof. Alexandre Favre, directeur de l'Institut de Mecanique Statistique de la Turbulence, Marseille, France, on "Momentum and Energy Balance in a Turbulent Boundary Layer."

Saturday, Jan. 19

Talk by William Stringfellow, lawyer, lecturer, and writer, on Forum sponsored by U.C.A. Faculty Committee, on "The Simplicity of the Christian Life," 6 p.m., HUB dining room "A."

Varsity gymnastics, vs. Temple, 3 p.m.; varsity basketball, vs. Carnegie Tech, 8 p.m., Rec Hall.

Sunday, Jan. 20

Chapel Service, 10:55 a.m., Schwab Auditorium. William Stringfellow, lawyer, New York City, on "The Mission of the Church in a Decadent Society."

Hillel Foundation Cultural Film, 8 p.m. "Marcel Marceau Pantomimes" and "The Ghetto Pillow."

Monday, Jan. 21

Faculty Luncheon Club, 12:30 p.m., HUB Dining Room "A." President Eric A. Walker, on "Penn State's Relations with Other Pennsylvania Colleges."

Department of Architecture film showing, 7:30 p.m., Mineral Industries Auditorium.

State College Color Slide Club meeting, 7:30 p.m., Room 101 Chambers.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. P. W. Hill, on "Three-dimensional Experimental Strain Analysis Applied to Rubber Parts."

(Continued on page four)

Evaluations show results

WITH almost half of the evaluation program complete, it is clear that many departments of the University are endowed with the resources required to meet the responsibilities imposed by the superior students now entering the University.

However, results of the program indicate that some departments will require major overhauling if the University is to meet the challenge for greatness that lies immediately ahead.

The evaluation program has revealed itself to be a powerful mechanism for speeding up the modernization of a department. The internal evaluation program has been as valuable as the outside evaluations by instilling a conscious drive for improvement and an awareness of the need for continuing self-analysis. For their part the evaluations by the visiting teams have given the University the benefit of counsel by many distinguished scholars, drawn in large part from universities whose mission is similar to Penn State's. As a group, the evaluators have been friendly, sympathetic and honest in their appraisals. They are leaving behind a set of recommendations which, when carried out, will give the University a quantum jump in quality.

Some generalizations are beginning to stand out as the evaluation reports come in. Some of the departments which are asking for more help from the University have had their cases strongly fortified by the evaluation committees.

The evaluating committees have said the Penn State salary structure is too low to be competitive with the best American universities. An average 50 per cent increase in faculty salaries in the last five years has not entirely closed the gap. With this knowledge, the University has added strength as it seeks additional funds from the Legislature and from other sources.

One interesting result of the evaluations made so far is that the humanities have fared better in the reports than the scientific and technological departments for which Penn State is best known. This is difficult to understand in view of the much greater research support available to these departments. There is a temptation to say that preoccupation with research grants now available in science and technology may be subverting the whole teaching function. This view has found no supporters among the members of the evaluation committees. Two departments were taken to

(Continued on page two)

The Arts

Stephen Spender, noted British writer and poet, will read some of his own poetry and discuss the younger English playwrights and poets on the Artists Series program Friday, Jan. 25, at 8:30 p.m. in Schwab Auditorium.

Tickets will be on sale to the public Wednesday and Thursday, Jan. 23-24 at the HUB desk.

In his talk, Spender will give an account of the movement of Osborne, Wesker, John Arden and others in the English theatre. He will speak also about young poets such as Philip Larkin, Kingsley Amis, John Wain and others.

Architecture exhibit

An exhibition titled, "Swiss Industrial Architecture," consisting of 73 photographs, will open Sunday in the HUB gallery. The exhibit illustrates the remarkably fine industrial architecture of Switzerland and was organized by the Federation of Swiss Architects. It is being circulated under the auspices of the Smithsonian Institution Traveling Exhibition Service and presented here by the department of architecture. It will continue until Feb. 10.

Thurber speaker

Dr. Clarence E. Thurber, associate professor of political science, will be the speaker in the current series on "International Tensions and Their Possible Resolution" Tuesday, Jan. 22, at 4 p.m. in the HUB assembly hall.

The title of the talk will be "Peace Research in American Universities."

Sponsored by the State College Friends Meeting Peace and Social Order Committee, the Series will continue through the next four weeks.

President Eric A. Walker will speak before the Faculty Luncheon Club at its regular meeting Monday, Jan. 21, in HUB dining room "A." Lunch begins at 12:30 p.m. and tickets, priced at \$1.30, are on sale at the HUB desk.

The topic of President Walker's talk will be, "Penn State's Relations with other Pennsylvania colleges."

SENATE MINUTES

MEETING OF JANUARY 8, 1963

The University Senate met at 3:55 p.m. on Tuesday, January 8, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the December 4, 1962 meeting were approved as printed in the Faculty Bulletin for December 14, 1962. One hundred sixty-six senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator; E. G. Buss (E. B. Hale), W. P. Campbell (Yar Chomicky), Della Durant (Herberta Lundegren), D. H. Ford (J. D. Ashby), P. F. Hallock (R. E. Kummer, J. C. Johnson (V. M. Albers), E. L. Keller (T. S. Goas), E. L. Mattil (Leon Frankston), R. D. McClay (N. K. Hoover), R. E. McDermott (W. E. Sopper), W. E. Meyer (C. D. Dillio), J. E. Montgomery (Ruth Smith), F. W. Peikert (H. D. Bartlett), C. G. Reen (J. B. Nesbitt), R. B. Saylor (M. E. Rozen), and D. E. Walker (E. L. Bergman).

New Senator

A letter was read from Ben Euwema that J. B. Wadsworth would act as Head of the Department of Romance Languages in the College of the Liberal Arts for the Winter and Spring Terms, 1963 while F. B. Krauss is on leave.

A letter was read from D. V. Josephson,

Chairman of the Senate Committee on Committees, regarding Senate Committee Appointments. These appointments, which had had the approval of President Walker, are as follows:

Appointments from the new College of Arts and Architecture:

Academic Standards ----- G. S. Zoretich
Admissions ----- K. J. Palakowski
Committees ----- Hummel Fishburn
Continuing Education Policy -----

----- W. R. Weisman
Courses of Study ----- W. H. Walters
Educational Policy ----- Robert Enggass
Faculty Affairs ----- W. S. Smith
Library ----- H. E. Dickson
Military Instruction ----- P. F. Hallock
Research Policy ----- W. H. Wilson
Scholarship and Awards -- Frank Gullo

Appointments to fill vacancies from the

College of the Liberal Arts:

Library ----- Neal Riemer
Faculty Affairs ----- E. H. Freund

Appointment to fill vacancy from the College of Mineral Industries while J. C. Griffiths is on leave January 1 through June 30, 1963:

Courses of Study ----- E. W. Miller

Reports of Standing Committees

P. A. Shelley, Chairman of the *Senate Committee on Courses of Study*, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals listed under Items IA and IB. The motion was seconded and passed. Item IB included a Cooperative 5-

Year Program for the B.S. and M.D. Degrees in Conjunction with Jefferson Medical College of Philadelphia. Item II was for the information of the Senate. The complete report is on file in the office of the secretary.

B. A. Whisler, Chairman of the *Senate Committee on Rules*, presented the report which had been distributed with the agenda as Appendix "B." This report recommended the following rewording of Rule E-3-c of the Senate Policies and Rules for Undergraduate Students in order to clarify the intent of the Senate:

E-3-c. A candidate for a bachelor's degree subsequent to his first bachelor's degree shall earn after his first degree at least 30 credits required in, or related to, the curriculum of the subsequent degree, and meet all requirements of that curriculum.

Mr. Whisler moved that Rule E-3-c be changed. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Comments and Recommendations for the Good of the University

President Walker discussed the equation which is currently being used by The Pennsylvania State University and the various state-aided institutions to prepare budget requests for the Governor and the legislature.

The next regular meeting of the Senate will be on February 5, 1963; the agenda will be distributed on January 22, 1963.

The meeting adjourned at 4:23 p.m.

Robert G. Bernreuter
Secretary

EVALUATIONS —

(Continued from page one)

task sharply for their lack of aggressiveness in seeking research support. One committee reported that any mature science professor who does not have outside research support of at least \$30,000 annually either is (1) not accepting his responsibilities or (2) not abreast of his field.

Several departments were highly commended in reports from the evaluators. These include landscape architecture, nuclear engineering, speech and Slavic languages. For even these departments, there were many suggestions for improvement.

Languages at the University were evaluated as a group by five scholars from Northwestern, Michigan, Johns Hopkins, Pennsylvania, and Georgetown universities. This report was replete with mentions of dedicated service and outstanding performance in the face of very heavy teaching loads. In overall analysis, it was clear the committee felt that Penn State has the basic personnel and the student resources to become a distinguished center for study in language.

The committee evaluating nuclear engineering commended the department in warm terms and strongly

recommended that it move immediately into a doctoral program in nuclear engineering. This has since been done.

The committee which evaluated landscape architecture included one member who serves also on the accreditation committee of the American Society of Landscape Architects. The full committee, on study of the evaluation report, decided to accredit the department through 1967 without further examination.

In contrast to these generally favorable reports, one departmental curriculum was termed "archaic" by the evaluators. Another was criticized for poor teaching of courses that should not have been offered in the first place, since the course material was properly offered by another department.

The schedule for evaluations through June is as follows:

January 28, 29, 30—Department of Clothing and Textiles.

February 11, 12, 13—Department of Hotel and Institutional Administration.

February 11, 12, 13—Department of Foods and Nutrition

February 18, 19, 20—Department

of Political Science and Institute of Public Administration.

April 8, 9, 10—Department of Commerce and Management.

April 8, 9, 10—Department of Accounting and Business Statistics.

April 8, 9, 10—Department of Economics, Department of Mineral Economics, work in Economics offered by the Department of Agricultural Economics and Rural Sociology.

April 8, 9, 10—Bureau of Business Research.

April 29, 30, May 1—Division of Animal Science and Industry, Animal Industry and Nutrition, Dairy Science, Poultry Science, Veterinary Science.

May 13, 14, 15—Department of Art and the Department of Art Education (including Home Art in the Department of Home Management, Housing, and Home Art)

May 13, 14, 15—Department of Theatre Arts.

May 27, 28, 29—Department of Music and Department of Music Education.

May 27, 28, 29—Department of Agricultural Engineering.

June 24, 25, 26—Department of Labor Education.

ITEMS OF INTEREST

The Arts

- ABERG, GILBERT, public information, "Esther," a three-act play in verse, based on the biblical story.
- ALTMAN, HAROLD, art, drawing selected by Whitney Museum of Art for forthcoming Annual of Sculpture and Drawings.
- HANSON, BILL, art, exhibit or prints at the George Eastman House, Rochester, N. Y.

Patents

- BLAND, R. E., Ordnance Research Lab, a bonding jig for securing components of underwater transducers during bonding operation. No. 3,064,715.
- FINLON, F. P., and LEHMAN, E. W., Ordnance Research Lab, phase-shifting device to provide constant-amplitude, variable-frequency voltage. No. 3,065,403.

Elected and Appointed

- BIRKENMAYER, S. S., Slavic languages, elected member of the Polish Institute of Arts and Sciences in America.
- DUNLOP, J. W., music education, elected president of the Eastern Division, National Association of College Band Directors for two-year term.
- FERRARA, W. L., accounting, appointed a member of the American Accounting Association's committee on advanced financial accounting instruction.
- GOLATZ, H. J., industrial relations, re-elected president, Pennsylvania Federation of Teachers, AFL-CIO.
- re-elected secretary-treasurer, Labor Education Section, of Adult Education Association, U.S.A.
- GROSS, E. A., physical education, named president-elect, Pennsylvania State Association for Health, Physical Education and Recreation.
- TORKELSON, G. M., education, appointed to the Pennsylvania Audio-Visual Advisory Committee.
- QUEER, E. R., engineering experiment, elected vice chairman of the Pennsylvania Air Pollution Commission.
- WALKER, E. A., President, re-elected president of the Engineers Joint Council, for 1963.
- WAYNICK, A. H., electrical engineering, appointed to a three-man group to represent the United States in a meeting of the European Preparatory Commission for Space Research in Paris, France.
- ZELKO, H. P., speech, elected to the National Council, of the National Society for the Study of Communication, as member at large.

Awards

- MACAULAY, J. D., elementary education, the 1962 Journal of Geography award for intensive research concerning the elementary school child's understanding of geographic concepts.

Lectures and Talks

- CREECH, R. G., horticulture, "Maize, Endosperm, Genetic Control, and Carbohydrate Synthesis" at the National Sweet Corn Breeders' Association meeting in Chicago.
- DEVINNEY, R. N., English at Allentown, round table discussion on "Expository Composition—Kindergarten through Col-

lege. For Whom? What Kind? How Much?" at the PSEA convention at Harnburg.

- GIVEN, P. H., fuel technology, "The Chemistry of Coal Macerals," at the International Meeting on Organic Processes in Geochemistry in Milan, Italy.
- "Mechanism of Reduction of Unsaturated Systems" at the International Symposium on the Application of Polarography in Biology, Chemotherapy, and Medicine, at Jena, East Germany.
- KNOEL, M. M., home management, "The Development of Basic Concepts in Home Management by a Land-Grant Committee," before a seminar in household economics and management at Cornell University.
- LEWINER, OSWALD, English, "The Changing Image of the Executive in American Fiction," at I.B.M. in Yorktown Hts.
- reading of his poetry, Colgate University, Dec. 6.
- taped radio program, "The Poet as Teacher" simultaneous broadcast in 30 languages over Voice of America.
- MATHER, W. G., sociology and anthropology, "Satisfaction of Pennsylvania Physicians with Rural Medical Practice," before the Commission on Rural Health, Pennsylvania Medical Society, and students of the University of Pittsburgh Medical School.
- MCDONALD, E. T., Speech and Hearing Clinic, seminar for graduate students in speech pathology at the University of Hawaii, Dec. 10-21.
- MONTZ, LESLIE, Continuing Education, "The College Woman in Today's World," at capping ceremonies of the freshman class of Holy Family College, Philadelphia.
- MUELLER, E. W., physics, "Direct Ion Microscopical Observation of Radiation Damage in Metals," before a colloquium at the Florida State University.
- "Field Ion Microscopy of Crystal Defects," before a metallurgy colloquium at the Massachusetts Institute of Technology.
- "Research in the Atomic Structure of Refractory Metals," before the New York City section of the American Society for Metals.
- RAVER, LEONARD, music, lecture-demonstration on "Chorale Preludes and their Uses" at a meeting of the Williamsport chapter, American Guild of Organists at Lycoming College.
- SAUER, J. A., physics, "Study of Motions in Solids," at the Physics Colloquium, Rensselaer Polytechnic Institute.
- TAFT, R. W., JR., chemistry, "Solvent Effects in Fluorine Nuclear Magnetic Resonance Shielding," at the National Bureau of Standards Colloquium, Jan. 16, in Washington, D. C.
- "Some Applications of Fluorine Nuclear Magnetic Resonance Shielding to Physical Organic Problems."
- TRIBBLE, O. H., continuing education, "Challenges to Management from Industrial Psychology," Jan. 22 before the York Road Industrial Management Club.
- URBAN, H. S., DOC, "Problems in Training Professional Psychologists," at the quarterly meeting of psychologists in State service at the Hollidaysburg State Hospital.

LUDORSON, G. A., sociology on leave in Vienna, "The American Woman" and "The Romantic Ideal in America" for U.S.S. Seminar, Schloss Leopoldsdorf bei Eisenitz, Styria, Austria.

VASTOLA, F. J., fuel technology, "Reactions of Plasmas and Atomic Species with Coal," before the Coal Technology Group of the Pittsburgh Section, American Chemical Society.

WILLIAMSON, M. A., Engineering, several lectures in engineering education and research and development management in Bonn, Germany, at the invitation of Deutsche Gesellschaft fuer Flugwissenschaften E. V.

ZIMMERMAN, L. H., bacteriology, "Regulation of Proteinase Biosynthesis by *Streptococcus faecalis* var. *liquefaciens*."

Articles and Papers

- ARMQUIST, J. O., dairy science, "Direct and Indirect Measurement of Daily Testicular Sperm Production in Dairy Bulls," in the 25th Anniversary volume of the Instituto Sperimentale Italiano "L. Spallanzani" Per La Fecondazione Artificiale, Milan, Italy.
- ANTHONY, ADAM, zoology, with Frehn, J. L., "Respiration and Phosphorylation of liver mitochondria from cold-exposed rats and chipmunks" in the November issue of The American Journal of Physiology.
- BIRKENMAYER, S. S., Slavic languages, "Hazards of College Russian Courses for Students whose Introduction to Russian was in High School" at the annual meeting of the American Association of Teachers of Slavic and East European Languages, Washington, D. C., Dec. 27.
- BRITTON, J. H., child development and family relationships, Mather, W. G., sociology, with Alice K. Lansing, "Expectations for Older Persons in a Rural Community: Community Participation," in the December issue of Rural Sociology.
- CAMPBELL, R. E., DOC, "The Influence of Personality and Background on Counselor Interview Sub-Role Behavior," in the Winter issue of the Journal of Counseling Psychology.
- DAMERST, W. A., English, "A Consultant on Writing Looks at the Other Half of His Job," at the annual meeting of the American Business Writing Association in Houston, Dec. 27-29.
- ESSENGHIL, R. H., fuel technology, "The Thermal Radiation Theory for Plane-Flame Propagation in Coal-Dust Clouds," at the Ninth International Symposium on Combustion.
- FERGUS, C. L., botany and plant pathology, "Glomerium Leptideum Found in North America," in the May-June issue of Mycologia.
- FREAR, D.E.H., agricultural and biological chemistry, with Enos, H. F., "Method of the Detection of Microgram Quantities of O, O-Dimethyl-S-(N-methyl)-carbamoyl-methyl Phosphorodithioate (Demethoate) in Milk" in the Nov./Dec. issue of Agricultural and Food Chemistry.
- GLANZ, P. J., veterinary science, "In vitro Sensitivity of *Escherichia coli* to Antibiotics and Nitrofurans" in the October issue of Cornell Veterinarian.

(Continued on page four)

ITEMS OF INTEREST —

(Continued from page three)

HARRISON, J. M., journalism, "Television Takes a Look at the Press," in the December issue of Nieman Reports.

JOHNSTONE, H. W., JR., philosophy, "Can Philosophical Arguments Be Valid," at the meeting of the Eastern Division, American Philosophical Association in New York.

LEWINTER, OSWALD, English, poem, "The Dancer at Versailles," Fall, 1962, issue of Epoch.

LINDSTROM, E. S., bacteriology, with IBANEZ, M. L., "Metabolism of Sulfate by the Chromatophore of Rhodospirillum," in the September issue of the Journal of Bacteriology.

MAGNER, T. F., Slavic languages, a chapter on "Soviet Youth," in the new book, "Soviet Union: Paradox and Change," edited by Prof. Holt and Turner, University of Minnesota and published by Holt, Rinehart, and Winston.

MONTGOMERY, J. E., family housing and home art, with Kivlin, J. E., "Place of Residence as a Factor in Housing Desires and Expectations," in the December issue of Rural Sociology.

NEILLY, V. E., Continuing Education, "Institute Certifies Engineering Technicians" in the November issue of Technical Education News.

PALMER, H. B., fuel technology, "Spectra of Alkali Metal-Organic Halide Flames," at the Ninth International Symposium on Combustion.

— "The Kinetics and Mechanisms of Carbon Deposition during Gaseous Pyrolyses" in the Fuel Society Journal (Sheffield) Vol. 1962.

PASTO, J. K. and TAYLOR, R. D., agricultural economics, "Economics of The Central Evaporator in Maple Syrup Production," Agr. Exp. Bul. 697, Aug. 1962.

RIEMER, NEAL, political science, "The Revival of Democratic Theory in the United States," in the November issue of The Annals.

Ross, E. J., Continuing Education, "Permanent Magnet and Coil Design," in the October issue of Electrical Design News Magazine.

STACHIW, J. D., Ordnance Research Lab, "Investigation into the Requirements of Deep-Submergence Torpedo Shells," at the Workshop on Deep Submergence Hulls, David Taylor Model Basin, Washington, D. C.

SNOWDON, J. C., Ordnance Research Lab, "Utilization of High-Damping Rubbers in Vibration Control," at the Fourth International Congress on Acoustics at Copenhagen, Denmark.

— "Incidence and Prevention of Damage Due to Mechanical Shock," co-authored with G. G. Parfitt, of Great Britain, in the April issue of the Journal of the Acoustical Society of America.

— "Representation of the Mechanical Damping Possessed by Rubber-Like Materials and Structures," at the SAE National Aerospace Engineering and Manufacturing Meeting at Los Angeles.

— Ordnance Research Laboratory, "Transverse Vibration of Free-Free Beams," in the January issue of the Journal of the Acoustical Society of America.

THEODORSON, G. A., sociology, "An Empirical Study of Romanticism and Contractualism in Three Cultures," at the Fifth World Congress of Sociology in Washington, D. C., in September.

WILLIAMSON, M. A., Engineering and Architecture, "Some Thoughts on Communications, Including Words and Misvaluations," at the Borg-Warner Research Center, Des Plaines, Ill.

At the 43rd annual meeting of the Conference on Research Workers in Animal Diseases, in Chicago, papers by Dunne, H. W. and Doty, R. D., "The Development of a Diagnostic Test for Caseous Lymphadenitis"; KRADEL, D. C., BARRON, G. P., DUNNE, H. W., and BORTNER, A. L., "Conditioned Methionine Deficiency in Rabbits"; Winter, A. J., "Effects of Long-Term Feeding of Nitrate, Nitrite, and Hydroxylamine on Pregnant Dairy Heifers"; DUNNE, H. W., SOLORANZO, LUDWIG, E. H., "A Fluorescent Antibody Test for Hog Cholera."

CALENDAR —

(Continued from page one)

Tuesday, Jan. 22

English Colloquium, 7:30 p.m., Nittany Lion Inn. William R. Smith, instructor in English, on "The Value of History as Education."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. Robert Duquet, assistant professor of meteorology, on "Extreme Temperatures."

Phi Delta Kappa meeting, cafeteria supper, 5:15 p.m., HUB dining room "A." Dr. John Hottel, associate professor of educational services, on "Special Education and the Exceptional Child—A Modern Program." Open to the public.

Second lecture in series on "International Tensions," sponsored by Friends Peace Committee, 4 p.m., HUB Assembly Room. Dr. Clarence Thurber, associate professor of political science, on "Peace Research in American Universities."

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Lyle E. McBride, on "Multivariable Control Systems."

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Dr. Raymond Powell, Yale University, on "Capital and Growth: The Soviet Case."

Thursday, Jan. 24

International Film Committee showing of "My Apprenticeship," 3, 7, and 9 p.m. HUB assembly room. Tickets at HUB desk Monday.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. W. H. Stockmayer, Dartmouth College.

Friday, Jan. 25

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Brian Mason, American Museum of Natural History, New York, on "Meteorites."

Artists Series, 8:30 p.m., Schwab Auditorium. Stephen Spender, poet, in readings of his works.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

faculty BULLETIN

Vol. 50, No. 25 Jan. 18, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

CALENDAR

Friday, Jan. 25

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Brian Mason, American Museum of Natural History, New York, on "Meteorites."

Artists Series, 8:30 p.m., Schwab Auditorium. Stephen Spender, poet, in readings of his works.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Sue J. Kohlhepp, on "The effects of Temperature on the Growth Rate and Uptake of Glucose Valine and Proline by *E. coli*."

Saturday, Jan. 26

Varsity gymnastics, vs. Temple, 3 p.m.; varsity basketball, vs. Bucknell, 8 p.m., Recreation Building.

Hillel Foundation cultural series. Guela Gill and the Oranim Zabbar, 8:15 p.m.

Sunday, Jan. 27

Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. P. Barrett Rudd, acting executive director of U.C.A., on "The Silence of God."

Hillel Graduate Student Association Lecture Series, 8 p.m. Dr. J. Mitchell Morse, associate professor of English, on "The Talmudic Mind of Samuel Beckett."

Monday, Jan. 28

Faculty Luncheon Club, 12:30 p.m., HUB dining Room "A." Charles Crodel, distinguished visiting professor of art, on "How To See Art."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. P. K. Mehta, on "Analytical and Computer Techniques Applied to Stress Determination of Cellular Shells."

Tuesday, Jan. 29

Series on "International Tensions," talk, 4 p.m., HUB assembly room. Roland War-

(Continued on page four)

Brotherhood banquet



Rabbi Chany

Tickets for the tenth annual Brotherhood Banquet, sponsored by the Committee on Inter-Religious Affairs, Tuesday, Feb. 12 at 6 p.m., are on sale at the receptionists' desk in The Chapel and at the HUB desks.

Rabbi Elias Charry, of the Germantown Jewish Center in Philadelphia, will speak on "The New Emancipation Proclamation."

Lloyd A. Adams, associate professor of entomology extension, is chairman of the banquet committee. Clifford A. Nelson, assistant coordinator for religious affairs, is chairman of the Committee on Inter-Religious Affairs, which includes students, faculty members, and representatives of the several religious traditions.

The banquet is held customarily during Religion in Life Week.

Talking sense

Faculty members as well as students are invited to attend the showing of six 30-minute films, titled "Talking Sense," Tuesday afternoons at 3:55 p.m. in Schwab Auditorium.

Featuring Dr. Irving J. Lee, teacher and writer in communication, the series promotes more effective communication by analysis and illustration of factors leading to misunderstanding and trouble.

The first showing will be given Jan. 29. The films are being shown as part of Engineering 11 lectures so that faculty members are asked to take seats in the Auditorium not assigned to students.

UCA booklet

Copies of the University Christian Association booklet, "You and the Communist Challenge," are now available at the UCA office in The Chapel, at Nittany News, Pennsylvania Book Shop and Keelers, priced at 75 cents.

The booklet contains transcripts of the four main lectures given at the series of the same name last April by Dr. Charles Malik, former president of the U. N. General Assembly; Frank S. Meyer, associate editor of The National Review; Dr. Charles West, professor at Princeton Theological Seminary; and Rev. John F. Cronin, S. S., assistant director, Department of Social Action, National Catholic Welfare Conference.

Germany discussed

Roland L. Warren, International Affairs Representative in Germany for the American Friends Service Committee, will give two talks Tuesday, Jan. 29.

At 4 p.m., in the continuing series of discussions on international tensions, he will speak on the subject, "Bridging the Gap between East and West in Berlin." The series is sponsored by the State College Friends Meeting and is held in the HUB assembly room.

At 8 p.m., in Room 112 Chambers, he will speak on "Is Peace Possible in Berlin," in a talk co-sponsored by Friends Meeting and the University Christian Association.

Warren, as Quaker representative in Germany, moves more freely than perhaps any other American in East and West Germany. His job is to interpret the Berlin situation and the conflicts between the two sections. He talks with government officials, educators, church leaders, and others on both sides of the Berlin Wall.

Bids received

The General State Authority has received proposals for construction of the second unit of the Education and Psychology complex. Bids totalling \$863,195 were received for construction of the unit, which will have a partial basement and four upper floors and will provide laboratory, office, and classroom space for graduate study and research in Education.

The building will be located 100 feet west of the first unit and will be 70 ft. by 146 ft. in dimension.

Modernity

Dr. Stanley Rosen, assistant professor of philosophy, will address the Symposium on Modernity and the Philosophy Colloquium, Thursday, Jan. 31, at 7:30 p.m. in the Nittany Lion Inn assembly room.

The Symposium on Modernity was initiated in the Fall Term with the goal of developing understanding of the motives and methods of modern experimentation in the arts, through an exchange of information and ideas among scholars in all fields.

The title of Dr. Rosen's talk is "Some Aspects of Modern Thought."

PRESIDENT SPEAKS

President Walker will speak to the general faculty Thursday, Jan. 31, at 4 p.m. in Schwab Auditorium.

Books

"Essays in Philosophy," containing essays by ten members of the faculty of the department of philosophy, was published by the University Press, Jan. 4, 1963.

As explained in the preface, "The authors of the following essays are united by nothing more than a sense of the importance and mission of a philosophy which assumes its total responsibilities. . . These essays are intended, then, apart from what individual merits they may have, to help focus attention on the concern for philosophy in its deepest and fullest meaning, and in that sense alone do they speak with a single voice."

The authors and their subjects:

John A. Mourant—"Thomistic Existentialism."

Stanley H. Rosen—"Thales: The Beginning of Philosophy."

Albert Tsugawa—"The Intention of a Work of Art."

John M. Anderson—"Man As Doubter."

Richard Gotshalk—"Reflection and Seeing."

Henry W. Johnstone, Jr.—"Reason Unlimited."

Henry G. Bugbee, Jr.—"Thoughts on Creation."

Duane H. Whittier—"Kant and the Problem of Space."

Henry A. Finch—"Theoretical Fruitfulness and the Measure of Concepts."

Donald Kuspit—"Whitehead's God and Metaphysics."

Spenser gift

A small folio of poems by Edmund Spenser has been presented to the University in the name of A. Pauline Locklin, professor emerita of English who died in December.

The collection, poems written in the period, 1611-1617, is bound in calf, rebaked with brown morocco and contains woodcuts. It was given for inclusion in the Rare Book Room collection by an alumnus who prefers to remain anonymous.

Miss Locklin served on the faculty for 35 years, specializing in English Renaissance lyric poetry and in particular the works of Spenser.

Collection

Books, reports, maps files, and research materials collected by Dr. E. W. Morehouse, editor of "Land Economics" and consultant to public utilities, have been presented to Pattee Library to be added to the growing collection of industrial studies.

The materials are concerned with Dr. Morehouse's studies of public utilities



Steering Committee of the Faculty Luncheon Club includes H. L. Krall, Marguerite Duvall, Robert A. Campbell, and Mary L. Willard.

Faculty Luncheon Club

SINCE its origination April 17, 1944, the Faculty Luncheon Club has been a "low pressure" group, given little to publicity or fuss, having no dues, and solving no international problems.

It has, however, fulfilled the expectations of the late Dean Arthur R. Warnock who got the Club rolling nearly 19 years ago, with the hope that "we could have a club, similar to the service clubs (where) everyone could benefit by hearing about the other man's job. It would also be an ideal meeting place for faculty."

The formula for the Club's continued success has remained relatively unchanged since the original group met—lunch (cafeteria style at the State College Hotel in the beginning, now served in HUB dining room "A"), and a talk or performance, usually by a member of the faculty. In all, it takes about an hour, the conversation is pleasant, and the atmosphere is relaxed.

New members are always welcome; there is no initiation, no attendance requirement, and those who attend regularly are in agreement that the food is excellent for the modest charge of \$1.25 plus five cents tax.

There was probably nothing prophetic in the fact that the first meeting in 1944 featured a talk on the weather, by Dr. Hans Neuberger, professor of meteorology. Certainly many people were interested then in the subject as they have been in the past years in such varied topics as magic and teaching machines. Not all the meetings have featured faculty members; one session had the mayor of "Windcrest," which will be remembered by the older faculty members as the married student housing on east campus. Another student described bombing raids over Germany in an early program, and a year or so ago the chief of police in State College described a typical night in

the work of a policeman. Other programs have featured musical performances by faculty members and students, and it has become a custom for Chapel choir singers to perform just before Christmas.

The present program committee—officially the steering committee—is headed by Robert A. Campbell, assistant professor of engineering graphics, and includes Mary L. Willard, professor of chemistry; Mrs. Marguerite Duvall, associate professor of child development and family life extension; H. L. Krall, professor of mathematics; and N. J. Palladino, professor and head of the department of nuclear engineering.

For the Winter Term, the program will include the following: Jan. 28, Charles Crodel, distinguished visiting professor of art; Feb. 4, Leslie P. Greenhill, associate director of UDIS; Feb. 11, Dr. Henry Ladd Smith, distinguished visiting professor of journalism; Feb. 18, Frank Neusbaum, professor of theatre arts; Feb. 25, Dr. John P. Hagen, professor of radio-astronomy; March 4, Dr. S. Lewis Land, professor of industrial education; and March 11, Dr. Mary Willard, professor of chemistry.

Tickets for each luncheon are sold at the HUB desk on Monday and newcomers are especially invited to attend. Lunch begins at 12:30 p.m. and the program is completed by 1:30 p.m.

Losses by theft on increase

LOSSES by theft of University and student equipment, books, and personal property have been increasing at an alarming rate, S. H. Campbell, vice-president for business, said today.

Recently two men were charged by the State Police with thefts of equipment from University laboratories, offices and dormitory rooms. One man admitted to the theft of equipment valued at \$700.00 and clothing of about \$500.00. The Department of Security, assisting in the investigation, also revealed the accused admitted to the theft and transportation of many other valuable items of University equipment which were unlawfully disposed of and not recovered.

Among the confiscated articles—to illustrate the extent of the operation—were the following: microscopes, balance weights, drawing instruments, walkie-talkie radios, electric blower, books (including several expensive and limited volumes of literature and scientific books), skis and ski poles, tape recorders, records, weighing scales, dishes, typewriter, clocks, electrical parts, shaver, stop watch and many others.

Virtually no area of the University was immune to the operations, which started in 1961.

These thefts are not isolated cases, Campbell explains. Reports reaching him monthly indicate that thievery accounts for loss of many hundreds of dollars worth of personal property and University equipment and supplies.

"In most cases," he says, "the thefts are made relatively easy for the men by lack of simple security measures by the faculty and staff members or students responsible for the items.

"To prevent such thefts, we have to take several measures that we haven't paid enough attention to in the past:

1. Lock office and laboratory doors when the rooms are not in use, even for short periods of time.

2. Question the right of persons to be in certain areas if their presence isn't apparently legitimate.

3. Be more careful about leaving easily transportable items—for example clothing, books, typewriters—in unattended places. Even though racks are installed in some hallways for convenience, it would be more judicious not to use these racks at times when hallways are likely to be empty.

4. Never leave pocketbooks or wallets in offices or laboratories. Such personal items should always be carried along when leaving a room even for a short time unless it is certain that another trusted person will guard them during your absence.

5. Develop a consciousness of the need for effective security measures. In the long run, the best solution to the problem will be obtained when faculty, staff, and students are aware a problem exists to a serious degree and requires their help."

Agriculture

The College of Agriculture announces a series of seminars on research, to begin Friday, February 1, and to continue through May 17. Ten topics are scheduled.

The seminars will stress research policies and programs in the agricultural and biological sciences. Sponsoring organization is the Research and Graduate Study Committee of the College of Agriculture with Dr. Stuart Patton, chairman.

The series honors Dr. Lyman E. Jackson, College of Agriculture Dean, who will retire June 30.

During February and March the seminars will be held in the auditorium of the Hetzel Union Building at 4:00 p.m. February and March schedules are as follows:

February 1—"Agriculture and Public Health—Two Fields with Many Common Goals." Ernest M. Allen, Associate Director, National Institutes of Health.

February 15—"Growth in Funds for Research and Development." H. C. Knoblauch, Deputy Administrator, Cooperative State Experiment Station Service, U. S. Department of Agriculture.

March 1—"Agricultural Research in Industry." Robert H. White-Stevens, Research and Development, American Cyanamid Company.

March 8—"Individualism with Cooperation in University Research." Panel discussion by faculty members Ernest L. Bergman, John S. Boyle, and Robert F. Gentry, with Edward G. Buss, moderator.

March 15—"Teaching and Research." Panel discussion by faculty members John O. Almquist, Carl O. Clagett, and Stuart Patton, with E. Brewer Hale, moderator.

April and May topics will be announced later.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Penna. Dept. of Public Instruction	\$12,950	State Scholarship examinations	M. L. Zeigler
ibid.	1,500	Scoring and reporting service for high school equivalent examinations	M. L. Zeigler
U. S. Air Force	57,778	Semiconductor physics	J. P. McKelvey
ibid.	78,540	Solid phase reaction	Rustum Roy
Miller Chemical and Fertilizer Corp.	200	Diseases of fruits	F. H. Lewis
U. S. Public Health Service	500	Emotional factors in learning mathematics	G. M. Guthrie
ibid.	13,275	Mutant genes and riboflavin metabolism	E. G. Buss
ibid.	3,935	Muscle tension patterns	A. L. Peastrel
ibid.	4,025	Identification, de-individuation and taboo behavior	J. E. Singer
ibid.	7,425	Lipid metabolism in the ruminant	R. D. McCarthy
Penna. Dept. of Commerce	10,000	Economic study of Pennsylvania	Ned Shilling
Atomic Energy Commission	4,764	Fused salt chemistry	R. P. Seward
ibid.	10,821	Hydrocarbon reactions from fission fragment irradiation	W. A. Lloyd
E. I. DuPont de Nemours	1,000	Graduate training in school psychology	L. P. Guest
I. M. Pei Associates	7,900	FAA Control Tower Evaluation	E. R. Queer
National Science Foundation	24,000	High polymers over wide temperature range	J. A. Sauer
ibid.	1,825	Summer science training program	J. S. Boyle
ibid.	27,900	Comminution of brittle materials	L. G. Austin
NATO	20,500	Institute on Biometeorology at Pau, France	R. D. Schein
U. S. Air Force	\$9,480	Surface potential and band structure of metals	Paul Cutler
ibid.	31,770	same	Paul Cutler
American Chemical Society	19,920	Aliphatic carbon ion intermediates	H. G. Richey, Jr.
Penna. Game Commission	12,000	Wildlife administration	Ward Sharp

The Arts

An all-Poulenc concert by the University Symphony Orchestra, the Penn State Singers, Raymond Brown, associate professor of music, and Dr. Leonard Raver, Chapel organist, will be given tomorrow (Saturday) at 8 p.m. in Schwab Auditorium.

The opening work will be "Concerto in G Minor" for string orchestra and tympani, with Dr. Raver as soloist.

Brown will do a song cycle titled "Le Bestiaire," on poems by Guillaume Apollinaire.

Lorine Buffington will be the soloist with the Singers and Orchestra in the concluding "Gloria" in G major.

Theodore Karhan, associate professor of music, directs the Symphony Orchestra and Brown directs the Penn State Singers.

A series of five illustrated lectures by Denis Stevens, distinguished visiting professor of music, got underway this week. Other lectures will be given Feb. 13, March 6, April 24, and May 8. Future lectures will consider Hector Berlioz, Monteverdi, and Church Music in Medieval Spain.

Stephen Spender, noted British writer and poet, will read his own poetry and discuss young English playwrights and poets on the Artists Series at 8:30 p.m. tonight (Friday) in Schwab Auditorium.

The next program on the Artists Series will be given by the Jose Limon Dance Company Sunday, Feb. 3, in Recreation Building. Tickets will be on sale to the public at the HUB desk Thursday, Jan. 31, and Friday, Feb. 1.

John Cataldo, associate professor

of art education, is the new editor of "School Arts," the art education magazine. The January issue contains articles by Paul Edmonston and George Pappas, of the art education staff, and Earl Nitschke, graduate student. Contributing editors include Edmonston and Pappas as well as Marilyn Pappas, art education, and Charles Davis, associate professor of English. Editorial assistants are Dyson P. Schultz, graduate student in English, and Martha W. Lowery, secretary in art education. Photographic editor is Edward Leos, in charge of the photographic service of UDIS.

HUB expansion

The Board of Trustees has approved plans for the expansion of the Hetzel Union Building, the addition to cost about \$2 million.

To be located on the south side of the present building, the addition will include an expanded snack bar area to nearly triple the present area; enlargement of the terrace room and adjoining dining rooms to accommodate about 800 persons compared to the present 550; alterations to kitchens; additional ball room space of about the same capacity as the present facility; and offices and meeting rooms for student organizations.

Examinations

The next regular written Foreign Language Examinations will be held Monday, Feb. 4. The conflict exam in German will be held Tuesday, Feb. 5.

CALENDAR -

(Continued from page one)

ren. American Friends Service Committee, on "Bridging the Gap between East and West in Berlin."

Film presentation, "Talking Sense," featuring Dr. Irving Lee, 3:55 p.m., Schwab Auditorium.

Thursday, Jan. 31

Lecture series in genetics and behavior, 8 p.m., Room 209 Home Economics South. Dr. G. E. McClearen, associate professor of psychology, University of California at Berkeley, on "Behavioral Research."

Basketball, vs. Carnegie Tech, 8 p.m., Recreation Building.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. William I. Taylor, CIBA Pharmaceutical Co., on "Some Aspects of Indole Chemistry."

International Film Committee showing of "The Proud and the Beautiful," 3, 7, and 9 p.m., HUB assembly hall. Tickets at HUB desk on Monday.

Symposium on Modernity and Philosophy Colloquium, 7:30 p.m., Nittany Lion Inn assembly room. Dr. Stanley Rosen, assistant professor of philosophy, on "Some Aspects of Modern Thought."

Friday, Feb. 1

Interlandia Folk Dance, Room 105 White, 7:30 p.m.

NEW CALL SIGN

A new Citizens Band radio license, with call sign KIC7590, has been issued to the University by the Federal Communications Commission. All transmissions by departments using Citizens Band equipment on campus should use this call sign and no other. The previous license has expired and will be returned to the FCC.

Use of these transmitters should be made only for messages of importance. FCC rules indicate that the Citizens Radio service is limited to the minimum practicable transmission time. Misuse of the privilege can make Citizens Radio worthless.

faculty BULLETIN

Vol. 50, No. 26 Jan. 25, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Feb. 1

Biophysics Seminar, 2:20 p.m., Room 300 Walker. Dr. O. William Jones, National Association for Arthritis and Metabolic Diseases, on "Recent Developments in the Characterization of the Genetic Code."

Interlandia Folk Dances, 7:30 p.m., Room 105 White.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Vladimir Vand, professor of crystallography, on "Study of Meteorite Crater 'Ries Kessel,' Germany."

Agriculture Seminar Series, 4 p.m., HUB assembly room. Ernest M. Allen, National Institutes of Health, on "Agriculture and Public Health—Two Fields with Many Common Goals."

Saturday, Feb. 2

Varsity fencing, vs. Johns Hopkins, 2 p.m.; varsity rifle, vs. Navy, 2 p.m.

Sunday, Feb. 3

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. John Maguire, professor of religion, Wesleyan University, on "Waiting for Someone Already Here."

Artists Series program by Jose Limon Dance Company, 8 p.m., Recreation Building.

Master dance class, 3:30 p.m., White Building.

Monday, Feb. 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Leslie Greenhill, University Division of Instructional Services, on "Instructional Services for the Faculty."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. H. A. Peterson, on "Examples of Photoelastic Stress Analysis of Water Power Dams."

Tuesday, Feb. 5

Phi Epsilon Phi, botanical honorary, meeting open to public. Dr. Jonathan Wright, Michigan State University, on "The

(Continued on page three)

Trustees approve

Science, engineering institute

To coordinate and facilitate the work of a growing number of interdisciplinary research groups, an Institute for Science and Engineering has been established, to be located within the office of the Vice President for Research, effective February 1. The Board of Trustees approved the action at its meeting last weekend.

Dr. E. F. Osborn, vice president for research, says the Institute will have responsibility for originating, coordinating, and supporting inter-disciplinary and inter-college research programs, as well as for stimulating and supporting research programs of special and broad applications to Pennsylvania's industry, natural resources, and economic problems.

"The Institute will also provide a means for more efficient use of major items of research equipment," says Dr. Osborn, citing the Computation Center as an example.

Wide use of specialized research equipment is expected to make possible the obtaining of funds for its purchase.

Initially, the Institute will have responsibility for five major research studies or organizations now administered through the office of the Vice President for Research: the Computation Center, Waste Water Reconversion and Conservation Research Project, Laboratory for Human Performance Research, Laboratory for Animal Behavior Research, and the Ordnance Research Laboratory.

Other research programs of an interdisciplinary nature that may be developed in the future include: manpower retraining in Pennsylvania, rehabilitation of juvenile delinquents, Pennsylvania laboratory for human learning, atmospheric pollution research, ecophysiological laboratory, an institute of land and water resources, and a regional science research institute.

Undergrad research

The National Science Foundation has provided a grant of \$7,900 in support of a program of scientific research in summer months by talented undergraduates under direction of faculty members.

At present eight students are taking part in the program which was initiated for the academic year in 1962 and which will be continued for an additional year. The summer program last year enrolled six students, all in bacteriology but the new grant will support eight students.

R.O.T.C. tabled

The Board of Trustees last weekend tabled for subsequent consideration a recommendation that would place R.O.T.C. training on a voluntary basis.

The action was taken in view of impending Congressional consideration involving Federal policy on R.O.T.C. programs.

Last October, the University Senate voted 104 to 99 to recommend that the University place the training on a voluntary basis, effective following the 1963 Spring Term.

The Trustees action was based on the fact that the Department of Defense has presented to Congress a recommendation that R.O.T.C. be made a voluntary program two years in length and, for most colleges and universities, confined to the last two years of a baccalaureate program.

Tensions

Dr. Marvin E. Rozen, associate professor of economics, will be the fourth speaker in the current series on International Tensions Tuesday, Feb. 5 at 4 p.m. in the HUB Assembly Room.

He will speak on the effects of nuclear strategy and technological advances on foreign and domestic policies.

A graduate of the University of California, which also granted him the doctorate degree, Dr. Rozen has taught at the University of Washington, University of California, and Stanford University. He joined the Penn State faculty in 1958.

The series, which is sponsored by the Peace Committee of State College Friends Meeting, will be concluded Feb. 12 with a discussion by Dr. William Prokasy, assistant professor of psychology.

SENATE

The scheduled meeting of the University Senate, on February 5 has been cancelled. Consequently the next meeting will be held Tuesday, March 5, the agenda for which will be distributed Feb. 19.

PERSONNEL MATTERS

Dr. Dale B. Harris, acting head of the department of psychology since September, has been named head of the department, effective Feb. 1. He came to the faculty in 1959 to direct the educational-developmental section of the department. He was formerly director of the Institute of Child Welfare at the University of Minnesota. A graduate of DePauw University, he was granted master of arts and doctor of philosophy degrees by the University of Minnesota. He has done extensive research in the field of child behavior.

Dr. Byron Cosby, Jr., professor of actuarial science at the University of Texas since 1958, is currently serving as visiting professor of mathematics for the Winter and Spring Terms. A graduate of Northeast Missouri State College with advanced degrees from the University of Missouri and University of Chicago, he has taught at Rensselaer Polytechnic Institute and the U. S. Naval Academy and did actuarial work in New York and was an analyst for the Weapons Systems Evaluation Group in Washington, D. C.

Dr. James Holly Hanford, professor emeritus of Western Reserve University, is serving as visiting professor of English during the Winter Term. Author of books on the poet John Milton, Dr. Hanford is the first honored scholar and first president of the Milton Society of America. He has taught at North Carolina, Michigan, and Western Reserve universities and in recent years he has served as visiting bibliographer and consultant in the Firestone Library in Princeton.

Dr. Donald W. Prakken, professor of Greek and Latin and chairman of the department of classics at Franklin and Marshall College, has been named professor of classical languages, effective Sept. 1. He has been at F. and M. since 1946 and has also taught at New York University and as a Fulbright Grantee at Greek national schools at Corfu. He received the bachelor's degree in Greek and Latin from Whitman College, Walla Walla, Washington, master's degree in archaeology and classics from Johns Hopkins, and doctorate in archaeology and classics at Columbia University.

George B. Gurney, research associate at the Ordnance Research Laboratory, has been named assistant professor of engineering research.

Dr. Maurice Natanson, professor of philosophy at the University of North Carolina, has been named distinguished visiting professor of philosophy and speech for the Spring Term. He will teach a seminar on the relations between philosophy and rhetoric. A graduate of Lincoln Memorial College, he received the master's degree from New York University and doctorate from the University of Nebraska.

Dr. Elsworth R. Buskirk, since 1957 research physiologist at the National Institutes of Health, has been named professor of physical education, effective April 1. He will be director of the new program in human performance research. He has had extensive experience in research on the performance of the human body in relation to malnutrition, obesity, and environmental physiology.

Dr. Donald H. Ford, director of the Division of Counseling and assistant professor of psychology, has been named director of the University Placement Service in addition to his other titles. He replaces **George N. P. Leetch**, who will retire March 31 after 22 years on the staff, the last 20 years in his Placement Service position.

Dr. William F. Prokasy, assistant professor of psychology, has been awarded a National Science Foundation Senior Post-Doctoral Fellowship. He plans to spend the 1963-64 academic year at the University of Indiana doing research in the area of classical conditioning.

Dr. Henry W. Knerr, professor of physics and associate dean of the Graduate School, has been granted a leave from May 6 to June 6 to make a trip through the Eastern Mediterranean area.

Dr. William A. Steele, associate professor of chemistry, has been awarded an NSF Senior Post-Doctoral Fellowship and plans to spend the 1963-64 academic year at the Free University of Brussels, conducting theoretical investigations of the molecular bases of non-equilibrium bases.

Samuel C. Sabeen, associate professor of art, has been named acting assistant dean of the College of Arts and Architecture. He will continue as associate professor of art. Sabeen will be concerned primarily with resident art instruction. He has been a member of the faculty since 1957.

Reorganization

Reorganization of three departments in the field of geological sciences in the College of Mineral Industries was approved by the Board of Trustees last weekend.

Effective February 1, the present petrologic and geochemical activities of the department of geophysics and geochemistry will be joined with the department of mineralogy, the group to be then known as the department of geochemistry and mineralogy.

At the same time, geophysical activities of the department of geophysics and geochemistry will be transferred to the department of geology and the total will be renamed the department of geology and geophysics.

Dr. John C. Griffiths will be head of the department of geochemistry and mineralogy, and **Dr. Lauren A. Wright** will be the head of the department of geology and geophysics. **Dr. B. F. Howell**, who has been head of the department of geophysics and geochemistry, eliminated in the reorganization, will continue on the faculty as professor of geophysics.

Television

A continuing program of providing film clips to television stations in the State has been initiated by the department of public information to help Pennsylvanians learn more about the University.

In general, the films are short (less than one minute) subjects of public interest on all phases of Penn State's activities in resident instruction, research, or continuing education. While intended to have certain current interest, they are not necessarily "hard news" items.

James Vitale, formerly a television coordinator in DARS, is now devoting full time to the filming of these clips. Faculty members having possible subjects should contact **Gilbert Aberg**, radio-television producer in public information, UN 5-7517. The actual filming usually takes relatively little time.

Food service

The Nittany Lion Inn announces a special Sunday buffet dinner, featuring roast of beef every Sunday, with service from 12:30 to 2:30 p.m. and 6-8 p.m. For adults, the price is \$2.50 per person and for children under 12, \$1.

The HUB Terrace Room will hold a Candlelight Dinner on Valentine's Day Thursday, Feb. 14 from 5 to 6:45 p.m.

Trustees approve changes

THE Board of Trustees approved the transfer of several departments and other academic units at its meeting last weekend and also the establishment, in principle, of a College of Science.

Details of the organization of the College of Science will be submitted for approval at a later meeting.

Involved in the approved transfers, all effective July 1, were the following:

Department of Economics, Dr. Warren C. Robinson acting head, from the College of Business Administration to the College of the Liberal Arts.

Department of Psychology, Dr. Dale B. Harris head, from the College of Education to the College of the Liberal Arts.

Speech and Hearing Clinic, Dr. Eugene T. McDonald director, from the College of the Liberal Arts to the College of Education.

Details of the proposed organization of the College of Science have not yet been completed, but it is expected that it will include the departments of bacteriology, biochemistry, botany, chemistry, mathematics, physics, and zoology, with the possible establishment of a new department of statistics and computer science.

The total reorganization plans call for the establishment of three colleges—Arts and Architecture (fine arts), the Liberal Arts (Humanities and Social Sciences) and Natural Sciences. The College of Arts and Architecture became effective Jan. 1.

Contracts awarded

The General State Authority announced January 22 the awarding of contracts for the construction of the second unit of the Education and Psychology Center. Orndorff Construction Co. of Camp Hill was awarded the contract for general construction.

The building will have a basement and four upper floors, each 70 by 146 feet. Total floor area is 39,800. Scheduled completion date is May 1, 1964.

Pamphlet

A 45-page listing of films for parents and teachers, describing films on teaching techniques and educational psychology as well as child development and family relations, is now available from the Audio-Visual Aids Library, Room 3 Pattee. Call UN 5-6314 for a free copy.

LOST

The Meteorological Solar Radiation Records, which are considered irreplaceable, have been taken from the weather station in Room 313 Mineral Industries Building. The records are contained in a blue-gray notebook. Anyone having knowledge of the records is asked to contact Dr. C. L. Hosler, head of the department of meteorology, UN 5-6451.

FACULTY LUNCH CLUB

Leslie P. Greenhill, associate director of UDIS, will speak on "Instructional Services for the Faculty" at the weekly meeting of the Faculty Luncheon Club Monday, Feb. 4, at 12:30 p.m. in HUB dining room. AA Tickets at \$1.30 may be purchased at the HUB desk on Monday.

INTEROFFICE ENVELOPES

From time to time some offices accumulate quantities of interoffice envelopes. Some months ago departments having oversupplies of used envelopes were asked to bundle them and send them to the campus mail service.

The supply of such envelopes has been reduced considerably, although many departments have continued to send their oversupplies. Other departments not doing so are urged either to give them to the campus mailman or to send them to Room 3, Spruce. The supply of large envelopes is especially low.

LANGUAGE EXAMS

The regular written foreign language examinations will be held Monday, Feb. 4, from 7 to 8 p.m. The German exam will be held in Room 112 Chambers; French and Spanish in Room 10 Sparks; and English in Room 218 Sparks. The German conflict exam will be held Tuesday, Feb. 5, from 7 to 8 p.m. in Room 12 Sparks.

FUNDS RECEIVED

In the period Nov. 12 to Dec. 17 funds received through gifts, contracts, and agreements totalled \$718,272.02. The total included \$458,721.72 received through 29 contracts and agreements, and \$259,550.30 from renewals of 14 contracts and agreements. Most of the funds are received from industry, foundations, and government agencies and are in support of research projects.

CALENDAR —

(Continued from page one)

Red Pine Seedling Seed Orchard, 7:30 p.m., Room 112 Buckhout.

Series on "Talking Sense," film by Dr. Irving J. Lee, 3:55 p.m., Schwab Auditorium.

Five O'Clock Theatre, 5:15 p.m., Little Theatre, Old Main. "Puppet Show," by Robert Crapp, senior in Liberal Arts, directed by Ron Smolin.

International Tensions series, sponsored by State College Friends Meeting, 4 p.m., HUB assembly room. Dr. Marvin Rozen, economics, on "Effects of Nuclear Strategy and Technological Advances on Foreign and Domestic Policies."

Wednesday, Feb. 6

Faculty series of papers on "The Problem of Irrational Choice," 8 p.m., The Chapel. Dr. Vincent Norris.

Thursday, Feb. 7

Faculty Economics Seminar, 12:30 p.m., HUB dining room "A." Dr. Warren Eason, Princeton University, on "Human Resources Utilization in the Soviet System."

Philosophy Colloquium, 4 p.m., Room 203 Willard. Dr. Morris Grossman, on "The Drama and Dialectic: Ways of Philosophizing."

International Film Committee film, "Shoe Shine," 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk, Monday.

Opening night of University Theatre production, "The Fantasticks," Center Stage, 8 p.m. Runs until Feb. 16.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. John Ross, Brown University, on "Chemical Kinetics and Molecular Beams."

Friday, Feb. 8

Artists Series program of Barland Productions production of "The Turn of the Screw," 8:30 p.m., Schwab Auditorium.

Meeting of Central Pennsylvania Section, A.S.M.E., 7:30 p.m., Mineral Industries Auditorium. Dr. Joseph Marin, engineering mechanics, on "Engineering Education in the U.S.S.R."

University Theatre production of "The Fantasticks," 8 p.m., Center Stage.

Books

Dr. Stanley Weintraub, associate professor of English, is the author of two books concerning other authors. "C. P. Snow: A Spectrum," was published by Scribners January 10 and deals with the English novelist. "Private Shaw and Public Shaw," scheduled for publication Feb. 25 by Braziller, is a dual portrait of George Bernard Shaw and T. E. Lawrence.

The Snow book contains many of the writer's pronouncements on government, science and literature and demonstrates how his principles are exemplified in his fictional works.

Weintraub, who has written much on Shaw and is editor of "Shaw Review," was the first researcher to have access to the letters between Lawrence and Mr. and Mrs. Shaw.

The Arts

theatre opens

"The Fantasticks," an off-Broadway musical, will be the Winter production by the University Theatre at Centre Stage, Feb. 7 through 16, except Sunday, Feb. 10.

The show has been running at the Sullivan Street Playhouse in New York City since May, 1960. It was suggested to authors Tom Jones and Harvey Schmidt by Edmund Rostand's play, "The Romancers."

Tickets may be purchased at the box office in Schwab Auditorium Lobby Monday through Friday from 11 a.m. to 1 p.m. and 4 to 6 p.m. Reservations may be made by calling UN 5-6309. Performances begin at 8 p.m.

Principal roles are taken by Ron Slawson, of the television production staff of the University as the narrator; Frank Wilson, junior in electrical engineering; and Jo Sbarbaro, junior in music education.

artists series

Two Artists Series program will be presented in the coming week. Sunday, Feb. 3 at 8 p.m. in Recreation Building, The Jose Limon Dance Company will present a program, tickets for which are on sale at the HUB desk, if any remain, today (Friday).

Friday, Feb. 8, and Saturday, Feb. 9, the opera, "The Turn of the Screw," will be staged by Barland Productions.

Music for the opera is by Benjamin Britten and the libretto by Myfanwy Piper, from the Henry James story. It premiered in Venice and

later was performed in London and Canada. The first professional American performance was given at the American Festival in July, 1961 and the New York premiere in March of last year.

Patricia Neway, as the Governess, Richard Cassilly, as Quint, and Bruce Zahariades, as one of the children, Miles, have all appeared in all the American performances.

Tickets for the two performances will be on sale to the public Wednesday, Feb. 6, to Friday, Feb. 8, if any remain.

master dance

All women students and university faculty and staff members who are interested in participating or observing a Master Dance Class on Sunday, Feb. 3, are cordially invited to attend from 3:30 to 5 p.m. in White Building Gymnasium. The W.R.A. Dance Club, directed by Helen Hungerford, will sponsor the class.

Graduate lecture

Dr. Theodore Peterson, dean of the College of Journalism and Communications at the University of Illinois, will present the next Graduate School Lecture Thursday, Feb. 21, at 8 p.m. in Room 121 Sparks.

Dean Peterson, who is president of the Association for Education in Journalism, national organization of university journalism teachers, will speak on "A Criticism of Press Criticism."

Conference

A conference titled, "Wave Interaction and Dynamic Non-Linear Phenomena in Plasmas," will attract some of the nation's outstanding scientists and engineers in the fields of solar, exospheric, ionospheric and plasma physics to the campus Monday through Wednesday of next week.

Sponsored by the department of electrical engineering, the conference will be guided by Dr. O. E. H. Rydbeck, distinguished visiting professor from the Chalmers Institute of Technology, Goteburg, Sweden, whose research program covers the area of study of the conference. He will be aided by Dr. A. J. Ferraro, of the Ionosphere Research Laboratory.

Rowland elected

Roger W. Rowland, of New Castle, has been elected president of the Board of Trustees, to succeed James B. Long, of Blue Bell, president since 1958.

Other officers elected last weekend were:

Walter W. Patchell, of Philadelphia, named vice president of the Board; Dr. Eric A. Walker, re-elected secretary; C. S. Wyand and W. E. Kenworthy re-elected assistant secretaries; and McKay Donkin, re-elected treasurer.

Elected to the Executive Committee were B. C. Jones and J. Collins McSparran, filling vacancies resulting from the resignation of Richardson Dilworth and Mr. Rowland's move to an ex officio position on the committee.

faculty BULLETIN

Vol. 50, No. 27 Feb. 1, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Brotherhood

The annual Brotherhood Banquet, sponsored by the University Committee on Inter-religious Affairs in observance of Brotherhood Week, will be held Tuesday, Feb. 12, at 6 p.m. in the HUB ball room.

In addition to the principal talk by Rabbi Elias Charry, of the Germantown Jewish Center in Philadelphia, the program will include entertainment by the Varsity Quartet of the Men's Glee Club and several Japanese children's songs by Moieko and Akiko Yashiro.

Associate degrees

Jobs with attractive starting salaries were available to associate degree winners last June, a survey of the 442 graduates indicates.

Sixty-two per cent of those who received associate degrees are in positions paying \$400 or more per month, with the median starting salary at \$411. Seventeen graduates started at \$500 or more and the top salary was \$625.

Nearly half of the students are employed in Pennsylvania but companies in 16 states and Washington, D. C., also employed them.

FACULTY LUNCHEON CLUB

Dr. Henry Ladd Smith, distinguished visiting professor of journalism, will speak on "Cultural Uniformity in a Divided World," at the Faculty Luncheon Club meeting Monday, Feb. 11, at 12:30 p.m. in HUB dining room "A." Tickets for the luncheon are on sale at the HUB desk.

The Arts

music lecture

Denis Stevens, distinguished visiting professor of music whose appointment to the permanent faculty Sept. 1 has just been announced, will give the second in a current series of five lectures Wednesday, Feb. 13, at 8 p.m. in the HUB Auditorium.

The lecture is titled, "The Fantastic Symphony of Hector Berlioz: A Study in Musical Interpretation." The subject of the interpretation by conductors of great orchestral classics will be explored, well illustrated with recorded versions.

Open to the public without charge, the series will consider works of Monteverdi on March 6; church music in Medieval Spain on April 24; and Monteverdi's Vespers of 1610, on May 8.

alard quartet

The Alard Quartet, in residence for the academic year, will present its next concert Wednesday, Feb. 20, at 8:30 p.m. in Schwab Auditorium. The program will include works by Beethoven, Villa Lobos, and Walter Piston.

The Quartet is composed of Donald Hopkins and Joanne Zagst, violinists, Raymond Page, violist, and Leonard Feldman, cellist.

artists series

Benjamin Britten's opera, "The Turn of the Screw," will be performed tonight (Friday) and Saturday at 8:30 p.m. in Schwab Auditorium, with Patricia Neway, Richard Cassilly, and Bruce Zahariades in featured roles. The opera is based on the Henry James story. Tickets, if any remain, are on sale today at the HUB desk.

To follow on the Artists Series is Phyllis Curtin, renowned soprano of the Metropolitan Opera Association, who will sing Saturday, Feb. 16, at 8:30 p.m. in Schwab.

Tickets for Miss Curtin's program will go on sale to the public Thursday and Friday, Feb. 14 and 15.

Miss Curtin's program will be built around the music of Brahms, Mozart, and Handel of the traditional composers, and of Samuel Barber, Oscar Fernandez, Joaquin Rodrigo, and Theodore Chanler of the moderns.

Miss Curtin has performed before audiences throughout the U. S., Europe, and South America, has sung starring roles in 26 operas, and has created leading parts in ten premieres.

altman show

Harold Altman, associate professor of art, will have a one-man exhibition of prints and drawings in the HUB Gallery from Feb. 17 to March 8.

Born in New York, Altman was graduated from Cooper Union Art School and studied also at the Florence Cane School of Art, The Art Student League, Black Mt. College in North Carolina, The New School for Social Research, and l'Academie de la Grande Chaumiere, Paris.

Altman has had one-man exhibits in nearly 50 galleries, including shows in Paris, New York, Philadelphia, Chicago, San Francisco, Santa Barbara, Mexico City, and Los Angeles. He has also been in exhibitions in many other galleries. He has received more than 60 awards, medals, and commendations since 1958, and his work has been featured or reproduced and discussed in many leading art magazines.

Prior to coming here for the 1962 Summer Term, Altman taught at Alfred University, University of North Carolina, Indiana University, and the University of Wisconsin.

theatre

The Center Stage production of "The Fantasticks," an off-Broadway musical by Tom Jones and Harvey Schmidt, continues until Feb. 16 (except Sunday) at the theatre in the Conference Center. Curtain time is 8 p.m. and tickets may be purchased at the box office in Schwab Auditorium lobby from 11 a.m. to 1 p.m. and 4 to 6 p.m. Reservations may be made by calling UN 5-6309.

The musical is based on Edmund Rostand's play, "The Romancers."

art lecture

Harold E. Dickson, professor of art and architecture, will discuss the works of sculptor George Grey Barnard, especially as they relate to Abraham Lincoln, in a public lecture Monday, Feb. 11 at 7:30 p.m. in the HUB assembly room.

Barnard's 1917 statue of Lincoln was the center of an intensive controversy, because of its intense realism, picturing Lincoln ruggedly and with a slouch. The statue, in replica, was originally intended to go to this country's allies in World War I, but the controversy upset the plans.

Dr. Dickson has had a continuing interest in the Bellefonte-born Barnard and his lecture will be devoted to many of the sidelights of the sculptor's career and works. Title of the talk is "A Most Honest Abe."

Report to Faculty

*President Walker's talk of
Thursday, January 31, 1963*

I want to thank so many of you for taking the time to come here this afternoon to hear me talk about plans for the University's future. It is a little difficult for those of us who are concerned with the day-to-day changes and development of the University to realize that it has been here for only about 108 years. This feeling is brought home to me forcefully when I meet, as I do each June, with the so-called Penn State pioneers—those who graduated fifty or more years ago—and I stop to consider that these people have known Penn State for more than half of its life. They have watched their Alma Mater grow in this short time from a small, struggling people's college to a full-fledged and vigorous State University. It is not surprising that they are sometimes a little bewildered by the rate of this growth.

Indeed it is hard for many of us to realize that in just the past *ten* years, the University has almost doubled in size. Ten years ago our student enrollment—here and on the Commonwealth Campuses—was a little over 12,000. Today it is almost 24,000. In the last ten years, our total annual expenditures have gone from about 25½ million dollars to over 64 million. Our annual State appropriation has increased from 8.8 million to 20 million. We have added 425 members to our faculty, increasing the number who hold doctorates by almost 200. We have added 60 new buildings, at a total cost of almost 64 million dollars. All of this has taken place in just ten years—and for the last two or three of these years we have supposedly been operating under a moratorium!

Now of course growth at this rate will not continue. Indeed, one of our biggest jobs, as we face the future, is to prepare for a leveling off of this rapid expansion. We will soon be entering a new phase in which the number of students, faculty, and perhaps even facilities, will remain almost constant. This new phase in the University's life will bring problems and adjustments which will perhaps prove to be the most difficult of all. And some of these problems are of such a nature that we must begin facing them very soon.

Our long-range report of 1957 made proposals for the University's development which we have been following pretty closely as a master plan. In that report we estimated not only the total number of students the University would be prepared to take by 1970, but we made certain assumptions about their distribution. We projected a relatively large expansion at our Commonwealth Campuses, and a much smaller growth here at University Park. Such a pattern of distribution is desirable from several viewpoints.

As the State University we must fulfill our obligations to the Commonwealth as efficiently as we can and in as practical a way as possible. Continued expansion of our Commonwealth Campuses will enable us to do this. By offering an increasing number of students the opportunity to begin their college education close to home we will not only be benefiting them but will be able to accept our share of increased enrollments without an unwieldy expansion at this campus. Furthermore, we expect the next few years to bring a great increase in the demand for the kind of terminal programs that the Commonwealth Campuses are best equipped to handle.

What all this means, as far as plans for University Park are concerned, is that we must prepare for a relatively small increase in the number of undergraduates on this campus and a much stronger emphasis on graduate work.

Our long range plan projects for 1970 an enrollment for the University Park campus of somewhat under 21,000 undergraduates and about 4,300 or perhaps 5,000 graduate students. Last term we had roughly 15,000 undergraduates and 2,100 graduates. This means that within the next eight years we can expect approximately a 35 percent increase in undergraduate enrollment on this campus, but that we must look forward to at least a 100 percent increase in the number of graduate students.

Now obviously, some decisions will have to be made as to how these students are going to be distributed among the colleges. To begin with, we will have to make some very concrete plans about the directions in which the University is going to develop. We will have to decide which areas of learning we want to stress, which ones we will purposely reject, and in which ones we will hold our efforts to a minimum. In some way we will have to determine how many graduate students can be admitted to each college and to each department. At the undergraduate level we let the students themselves decide into what departments they will go, and we control the total number by having a single director of admissions and one or two simple admission standards. A similar procedure is scarcely feasible at the graduate level, yet some means of allocating our graduate students among the departments of the University must be found. These are difficult problems, but we must start facing them seriously very soon.

DURING the past year the most important and time-consuming part of our work has been devoted to the important matter of departmental evaluations. Twenty-six—or about half—of our departments have been evaluated. This group includes most of the biological sciences, about half of the engineering curricula, the College of Physical Education and Athletics, some of the humanities, and some of the departments in the College of Home Economics.

For many of you, I know, these evaluations have been a source of much detailed work and concentrated effort. But I think that those of you who have endured the process will agree with me that the effort has been worth the results. We have gained useful information about our merits and shortcomings not only from the opinions of the evaluators, but perhaps more importantly from the self-examination involved. Many of you, I know, have concluded that the evaluation program has been merely a spur to a much-needed reappraisal of policies, purposes, and procedures that might never have been undertaken without it.

I cannot say that I have been greatly surprised by the results of any of the evaluations, although some of the things we have learned have been disturbing and some merely confirm opinions that we had already held but on which we needed confirmation. Often the evaluators suggested that we ought to have additional space, that our salaries should be higher, that inequities should be corrected, that we need new equipment, and in some cases that we need new and more competent staff members. All of these are concrete proposals which we hope can be carried out within the next few years.

There were, however, several general deficiencies noted by the majority of the evaluators which I should like to discuss briefly.

I think the most universal defect which the evalu-

ITEMS OF INTEREST

Awards

ALTMAN, HAROLD, art, an award in the Art Directors Club exhibition in Chicago for a drawing, commissioned by the Container Corp. of America, for advertising series, "The Great Ideas of Western Man."

Patent

SEFLEY, R. M., JR., Ordnance Research Lab., U. S. Patent, No. 3,069,637, an "Electronic Signal-Seeking Means Having Tuning Resistance Automatically Controlled by Difference between Concurrent and Delayed Detector Output."

Elected and Appointed

BIRKENMAYER, S. S., Slavic languages, appointed head, East European Section, Modern Language Association Bibliography Committee for 1963-64.

DES MARAIS, M. R., architecture, elected treasurer of the Pennsylvania Society of Architects.

HOKF, J. H., metallurgy, appointed to the Transactions Committee of the American Society for Metals, for three-year term.

HOWELL, B. F., JR., geophysics, re-elected a member of the Board of Directors of the Seismological Society of America for 1963-66.

ISENBERG, M. W., architectural engineering, appointed to the Planning Committee on Fire Safety to Life and Fire Protection of Buildings, of the Building Research Institute.

NEUBERGER, HANS, meteorology, appointed to the Committee on International Cooperation of the American Meteorological Society.

READ, H. J., metallurgy, elected vice president of the Electrochemical Society for three-year term.

RICHARDS, M. D., business management, elected secretary-treasurer of the Academy of Management for 1962-63.

SCHRADER, W. J., accounting, appointed to the Research Review Committee of the American Accounting Association.

YEATON, KELLY, theatre arts, elected to serve on Board of Directors of American National Theatre and Academy, from Region 13.

Articles and Papers

ALMQUIST, J. O., dairy science, with AMANN, R. P., "Reproductive Capacity of Dairy Bulls. VII. Morphology of Epididymal Sperm," in the Journal of Dairy Science.

BLACKADAR, A. K., meteorology, "The Vertical Distribution of Wind in a Baroclinic Adiabatic Atmospheric Boundary Layer," at the national meeting of the A.M.S.

BORIRLEE, A. L., veterinary science, and KESLER, E. M., dairy science, with STANLEY, D.E., "Effect of a Fluctuating Milking Vacuum on Certain Measures of Udder Health," in the November issue of the Journal of Dairy Science.

BRANTNER, S. T., vocational industrial education, "An Appraisal of Selected Courses of the Vocational Trade and Industrial Education Curriculum in Pennsylvania," in the Winter issue of The Public School Digest.

BROWN, J. L., JR., Ordnance Research Laboratory, "Variation of Array Performance with Respect to Statistical Phase Fluctuations," in the December issue of the Journal of the Acoustical Society of America.

COUCH, H. B., and FLOOM, J. R., plant pathology, with MOORE, L. D., "Effect of Nutrition, pH, Soil Temperature, Air Temperature, and Soil Moisture on Pythium Blight of Highland Bentgrass," in the January issue of Phytopathology.

EDMONSTON, PAUL, art education, "Objectives for Learning in the Visual Arts," illustrated, in Sept.-Oct. issue of Art Education Quarterly.

—"Visual Arts and the Primary Child," illustrated, in the January issue of School Arts.

—"Impact of Research on Art Education," in the Southeastern Arts Bulletin, fall issue.

HOSLER, C. L., meteorology, with DAVIS, L. G. and BOOKER, D. R., "The Influence on the Terrain of Central Pennsylvania on the Distribution of Summer Rainfall," at the national meeting of the A.M.S.

GOLATZ, H. J., industrial relations, "A Fair Shake for Labor in the High School," in the January issue of the AFL-CIO Federationist.

JOHNSON, J. C., Ordnance Research Lab., "Underwater Missiles and the Electrical Engineer," at the Underwater Military Electronics session of the A.I.E.E. winter meeting.

KALIJARVI, T. V., C. C. L. E., "Central America: An Area of Transition," and "Economic Problems of Latin America," at a conference on "United States Economic Links to Latin America at Racine, Wis., sponsored by the Johnson Foundation.

LUDWIG, E. H., bacteriology, with SMULL, CHRISTINE E., "Enhancement of the Plaque-forming Capacity of Polio-virus Ribonucleic Acid with Basic Proteins," in the November issue of the Journal of Bacteriology.

LUMPLEY, J. L., aeronautical engineering, "Theoretical Aspects of the Eulerian-Lagrangian Problem," at the national meeting of the A. M. S.

MYER, W. E. and KUMMER, H. W., mechanical engineering, "The Penn State Road Friction Tester as Adapted to the Routine Measurement of Pavement Skid Resistance," at the 42nd annual meeting of the Highway Research Board, in Washington.

MORSE, J. M., English, "The Contemplative Life According to Samuel Beckett," in the winter issue of The Hudson Review.

RICHARDS, M. D., business management, "Analysis of Management Rating Systems," at the Academy of Management meetings of the Allied Social Science Meetings in Pittsburgh.

SCHIFFIN, M. W., animal behavior, with HART, F. M., zoology, "A Close Look at Polar Bears," in the December issue of "Animal Kingdom."

SCHIFFIN, M. W., animal behavior, HALF, E. B., animal behavior, with Carbaugh, B. T., "Effects of Morphological Variations of Chicken Models on Sexual Responses of Cocks," in the July-October issue of Animal Behavior.

MAILING

To aid local postoffices in sorting and distributing mail, letters and parcels sent to Commonwealth Campuses and other University offices off the main campus should be addressed as indicated on pages 3 and 4 of the Faculty Directory.

CONSTRUCTION PLANS

Final plans for the addition to Willard Building and preliminary plans for additions to Pattee Library have been approved by the Board of Trustees. The addition to Willard Building will consist primarily of classrooms. The library addition will be built to the west of the present building and a similar addition to the east is envisaged for the future.

SCHOLARSHIPS

A new program of grants and loans to aid needy students meet not only tuition charges but also living expenses, has been made possible by allocation of \$100,000 to the scholarship program from undesignated contributions to the Alumni Fund. Scholarships and loans will be available to entering freshmen and to entering advanced-standing students with superior secondary or other preparatory school academic records. The amount of the scholarship or loan will be determined by an evaluation committee after the recipients have been determined.

Fellowships

Faculty members are asked to call to the attention of outstanding advanced graduate students that the deadline for filing applications for one of the eleven Graduate School Fellowships for 1963-64 is March 1. These fellowships provide a tax-free stipend of \$2000 for the fall, winter, and spring terms, plus a grant-in-aid to cover all tuition for the three terms.

These fellowships are open to any outstanding student who has completed at least 30 semester-equivalent credits of graduate work prior to September and is working for the doctorate.

Awards are made in any area of academic work, although some preference is given to areas where other types of aid are less prevalent, such as the humanities and social sciences, still keeping in mind the criterion of outstanding scholarship. The present recipients are in the areas of Child Development and Family Relations, Counseling in Education, Geography, English, History, Mathematics, Physical Education, Physics, Political Science, and Solid State Technology.

Application forms may be obtained at the Graduate School Office, 101 Willard Building, by presenting a note from the department head, stating that the department will be able to support the application. A special part of the application requirement is a recent Miller Analogies graduate scholastic aptitude test score. This test will be given locally on Saturday, February 23. Time and place are announced on an information sheet given applicants. All application materials must be in by March 1.

Report to Faculty

*President Walker's talk of
Thursday, January 31, 1963*

I want to thank so many of you for taking the time to come here this afternoon to hear me talk about plans for the University's future. It is a little difficult for those of us who are concerned with the day-to-day changes and development of the University to realize that it has been here for only about 108 years. This feeling is brought home to me forcefully when I meet, as I do each June, with the so-called Penn State pioneers—those who graduated fifty or more years ago—and I stop to consider that these people have known Penn State for more than half of its life. They have watched their Alma Mater grow in this short time from a small, struggling people's college to a full-fledged and vigorous State University. It is not surprising that they are sometimes a little bewildered by the rate of this growth.

Indeed it is hard for many of us to realize that in just the past *ten* years, the University has almost doubled in size. Ten years ago our student enrollment—here and on the Commonwealth Campuses—was a little over 12,000. Today it is almost 24,000. In the last ten years, our total annual expenditures have gone from about 25½ million dollars to over 64 million. Our annual State appropriation has increased from 8.8 million to 20 million. We have added 425 members to our faculty, increasing the number who hold doctorates by almost 200. We have added 60 new buildings, at a total cost of almost 64 million dollars. All of this has taken place in just ten years—and for the last two or three of these years we have supposedly been operating under a moratorium!

Now of course growth at this rate will not continue. Indeed, one of our biggest jobs, as we face the future, is to prepare for a leveling off of this rapid expansion. We will soon be entering a new phase in which the number of students, faculty, and perhaps even facilities, will remain almost constant. This new phase in the University's life will bring problems and adjustments which will perhaps prove to be the most difficult of all. And some of these problems are of such a nature that we must begin facing them very soon.

Our long-range report of 1957 made proposals for the University's development which we have been following pretty closely as a master plan. In that report we estimated not only the total number of students the University would be prepared to take by 1970, but we made certain assumptions about their distribution. We projected a relatively large expansion at our Commonwealth Campuses, and a much smaller growth here at University Park. Such a pattern of distribution is desirable from several viewpoints.

As the State University we must fulfill our obligations to the Commonwealth as efficiently as we can and in as practical a way as possible. Continued expansion of our Commonwealth Campuses will enable us to do this. By offering an increasing number of students the opportunity to begin their college education close to home we will not only be benefiting them but will be able to accept our share of increased enrollments without an unwieldy expansion at this campus. Furthermore, we expect the next few years to bring a great increase in the demand for the kind of terminal programs that the Commonwealth Campuses are best equipped to handle.

What all this means, as far as plans for University Park are concerned, is that we must prepare for a relatively small increase in the number of undergraduates on this campus and a much stronger emphasis on graduate work.

Our long range plan projects for 1970 an enrollment for the University Park campus of somewhat over 21,000 undergraduates and about 4,300 or perhaps 5,000 graduate students. Last term we had roughly 15,000 undergraduates and 2,100 graduates. This means that within the next eight years we can expect approximately a 35 percent increase in undergraduate enrollment on this campus, but that we must look forward to at least a 100 percent increase in the number of graduate students.

Now obviously, some decisions will have to be made as to how these students are going to be distributed among the colleges. To begin with, we will have to make some very concrete plans about the directions in which the University is going to develop. We will have to decide which areas of learning we want to stress, which ones we will purposely reject, and in which ones we will hold our efforts to a minimum. In some way we will have to determine how many graduate students can be admitted to each college and to each department. At the undergraduate level we let the students themselves decide into what departments they will go, and we control the total number by having a single director of admissions and one or two simple admission standards. A similar procedure is scarcely leasible at the graduate level, yet some means of allocating our graduate students among the departments of the University must be found. These are difficult problems, but we must start facing them seriously very soon.

DURING the past year the most important and time-consuming part of our work has been devoted to the important matter of departmental evaluations. Twenty-six—or about half—of our departments have been evaluated. This group includes most of the biological sciences, about half of the engineering curricula, the College of Physical Education and Athletics, some of the humanities, and some of the departments in the College of Home Economics.

For many of you, I know, these evaluations have been a source of much detailed work and concentrated effort. But I think that those of you who have endured the process will agree with me that the effort has been worth the results. We have gained useful information about our merits and shortcomings not only from the opinions of the evaluators, but perhaps more importantly from the self-examination involved. Many of you, I know, have concluded that the evaluation program has been merely a spur to a much-needed reappraisal of policies, purposes, and procedures that might never have been undertaken without it.

I cannot say that I have been greatly surprised by the results of any of the evaluations, although some of the things we have learned have been disturbing and some merely confirm opinions that we had already held but on which we needed confirmation. Often the evaluators suggested that we ought to have additional space, that our salaries should be higher, that inequities should be corrected, that we need new equipment, and in some cases that we need new and more competent staff members. All of these are concrete proposals which we hope can be carried out within the next few years.

There were, however, several general deficiencies noted by the majority of the evaluators which I should like to discuss briefly.

I think the most universal defect which the evalua

tions have brought to our attention is the fact that in many curricula, our coverage of the particular science or discipline is frequently spotty and sometimes without reason or purpose. There are many facets, for example, to the study of biology, or of a language, or even of electrical engineering, and there should be well-thought-out reasons for emphasizing some aspects and neglecting others. Unfortunately our coverage in any area is too often determined by the interests of the people whom we happen to employ. In one case the evaluators described the quality of one of our departments by saying that the department consisted of a column of strength. They chose the word "column" carefully, explaining that we were very strong in one rather narrow aspect of the discipline, and that otherwise, the department was without foundation and breadth. Obviously their recommendation was that this situation should be remedied by the addition of new people competent in the areas not covered.

The second general defect concerns the curriculum or major program of study for undergraduates in many of our departments. The evaluators pointed out the rather obvious fact that a curriculum ought to be the property of, and be determined by, all members of a department—that each member of the department should be generally familiar with all of the courses offered in the curriculum. Yet frequently this is not true at Penn State. Too often a curriculum is a hodgepodge of courses put together at a number of levels. In some departments there is not a single member who is thoroughly familiar with all the work that a student must carry. How can a department understand a student's problems or predicaments if no one has ever taken the time to analyze all of the work the student must master? In some departments the situation is much worse than in others, but this failing appears to be a common one at Penn State. Certainly it is one which all departments must make every effort to correct.

The third problem relates to graduate work. Here again, in many departments there seems to be no well-thought-out plan. What topics, what facets of a department's discipline are to be covered in graduate teaching and in graduate research? This is a problem that should be of immediate concern to all departments. Too often there are no plans regarding the number of graduate students the department is preparing to teach, and certainly there is no general plan which fits that number into the total development plan of the University.

Realignments

I want to take a few minutes to talk about some realignments of our colleges and the component departments. Some ten or twelve years ago I was head of the Department of Electrical Engineering. I heard comments, and often used to comment myself, about the irrational arrangement of this University. At that time engineering could be found in four different colleges. Art was taught in the College of Engineering. There was little or no connection between the teaching of sociology and of rural sociology. We had economics in the College of Agriculture, the College of Mineral Industries, and the College of Business. I think I often said that the first job of any new president would be to "straighten out the organization." I have now been president for more than six years and this still has not been done! But we are at last beginning to make some moves in that direction.

We have created a new college of the Arts in which we include music, painting, sculpture, architecture, and

landscape architecture. We intend to move the Speech and Hearing Clinic to the College of Education, where it properly belongs. Economics and psychology have agreed to move from Business and Education into the College of the Liberal Arts. The Trustees have approved the formation of a new College of Science in which we plan to locate the basic sciences. We hope that these changes are being made slowly, carefully, and thoughtfully, and with the approval of all of those who are directly concerned. The Trustees are not dictating the kind of organization the University should have, nor are the administrative offices in Old Main. In fact, I have said to many groups that no department is going to be moved unless it wishes to move and demonstrates that wish by a majority vote. Nor do I expect that this change will be completed by June of this year. This kind of change has been going on since the start of the University, and I expect it will continue as long as the University stands. In fact, during the past year I have had a small group studying how the University might be organized in the year 1980. One interesting suggestion put forth was that by that time we will have no colleges as such, but rather a loose grouping of departments which have mutual interests, with administrative lines of communication and control going directly to the departments themselves. Whether this will happen or not I am not prescient enough to say.

Tensions

I would be remiss in this talk if I did not say something about the tensions under which the student body and the faculty, and the administration, too, seemed to work during the past term. I don't think we know all of the causes, and I am sure we do not know all of the cures. I have been told that the so-called Cuban situation had something to do with it, especially as far as our students of draftable age are concerned. Certainly the increased stature, increased intelligence, increased capability of the student body is a very large factor. Students know that they as a group are better than they used to be. They are all conscious that this calls upon them to do more and better work, and they all try to do so. They do not take defeat lightly nor indeed are they happy with anything less than a complete victory. Yet in many cases, our students have overscheduled. We used to say that one week's work was the equivalent of one credit. Last term we found many students trying to take thirteen credits in ten weeks, and some as many as fifteen and seventeen credits. This is unreasonable and it should be curtailed.

I think, too, that some of the tension resulted from increased pressures on the departments because of the evaluations, and because the departments in general are consciously doing their best to improve the quality of their instruction—a goal which is not won easily. I think we are all aware of this and we are looking for a solution. It is little comfort to note that the same phenomenon was seen at many other colleges, and that President Pusey at Harvard is also searching for mechanisms by which he can reduce the tensions among his faculty and staff.

Now let me mention briefly a few of the problems that will confront us in the coming year. First and foremost, of course, is what will happen to our appropriation request. I can only say that we have asked for 24.8 million dollars and we are setting up our budget and our student quota, which includes 1,000 more students next fall, on the assumption that we will get it.

But there are still other problems with us. One concerns statistics and the computer sciences. We have a very impressive computation center, which has been grow-

ing rapidly in the amount of work it does and in its cost to the University. Very shortly we will equip the computation center with its own building and with new computers. Obviously, we must give courses at both the undergraduate and graduate level in computers and computer theory. At the same time we must give some thought to the growing and related area of statistics. At present we give courses in statistics and in many departments in the University. Yet statistics itself is a science which can well stand on its own feet. Perhaps we should have a department which would include both computation and statistics, which would run the computation and the statistics laboratories, and which would be responsible for the major portion of the instruction in both fields at the undergraduate as well as the graduate level.

The problem of nucleonics is a growing one. We teach nucleonics in a number of colleges, we do research in a number of colleges, and we have a growing nuclear center. Should all this activity be brought together and given departmental status?

Another problem is that of biology. We have never given enough attention to this basic science at Penn State. It has always been related more to agriculture than to the growing area of health sciences. Should this be treated differently?

We are called upon almost daily to do more about nursing and nurses' education. What we have done in this area has been handled largely through the division of Continuing Education. Yet there is a growing need for educational programs at the technical institute level and a growing need for nurses with four-year bachelor degrees. We already have a pre-medical curriculum situated in physics and are now involved in experimentation in joint programs with the Jefferson Medical College. We have been asked to do something about the education of dental technicians. Should we be looking forward to the organization of a school of health sciences?

Another matter of concern is the rather nebulous one of area development or redevelopment. From the College of Business, the College of Home Economics, the College of Mineral Industries, and the College of Engineering, and from the officials of the State itself we hear that we should be doing more in the redevelopment of the naturally defined areas of the State. Financial considerations have kept us from doing anything in the past, yet certainly this question ought to be opened and a solution found.

Foreign programs

I am very much concerned about the University's foreign involvements. I personally never encouraged the growth of our student body from foreign countries, for I have never been sure that it was to our advantage or to theirs to bring foreign students to the University. I am never certain that a Penn State education is going to serve a foreign student well when he returns to his home country. At the same time, we have never been much concerned with sending our professors to foreign countries or accepting contracts to do work with foreign universities or with foreign governments. Perhaps I am mistaken in all of this and the question should be reopened and a policy defined for the University.

And lastly, I am somewhat concerned about the living conditions of our students. We have perhaps one of the finest residence hall systems in the country, but I am not sure we are making the best *educational* use of it. Are these residence halls merely apartments in which students eat and live or should they be part of the stu-

dent's educational experience? And if so, what can be done to enhance this aspect of our educational program?

Here then are a few of the problems that will keep us busy during the coming year. To them must be added one very important consideration—directly related to them all and often the controlling factor in determining the steps to be taken. Whatever decisions we make must be made in the knowledge that our resources are limited and that there is always real danger in trying to spread them too thinly. Our only recourse is to seek the best advice we can get, weigh all the pros and cons, and try to come up with solutions which will benefit not just *one* department or *one* activity, but the University as a whole—its research program and its program of teaching at both the undergraduate and the graduate level.

How are we doing

Now one cannot help but ask how are we doing? Is Penn State getting anywhere? Well, let me tell you there is no pressure gauge by which we *can* measure Penn State's impact. There is no thermometer to measure how warmly we are regarded. There is no ruler by which we can measure our stature. But there are many little things which are a source of satisfaction and which I believe add up to a considerable success.

First of all, the very fact that there are 30,000 young men and women *each year* who want to go into Penn State shows that someone thinks we are worthwhile. Last year we graduated 4,300 students, adding them to the roll of our alumni. We produced more Ph.D.'s than any other college or university in the State. We spent \$14,000,000 on 2,300 separate research projects. We reached 5,000 students through our correspondence courses. Continuing education had an impact on the lives of 50,000 people, and there were over a million attendances at sessions conducted by Agricultural Extension. Add to this the fact that our faculty authored 25 books and innumerable technical and otherwise learned articles. The Penn State press after a hesitating start published last year 6 books.

And when the Governor calls on us to help him write a bill for a Commission on Higher Education; and a senator from New Mexico calls on Penn State for assistance in preparing a water resources bill; and a congressman from Connecticut asks us what features should be included in a technical education measure; and the Department of Commerce asks us how to design an engineering service for small business; and when one sees that we have added to our faculty such names as Hagen, Heilman, Henisch, Kasch, Leibowitz, Mitzell, Pollard, Tesi, and Zelinsky; and that this term our roster of visiting professors includes men like Crodel, Rydbeck, Smith, Stevens and White—when one considers all these things, my feeling is that we are doing very well. And if we are doing very well, who is responsible? I am sure that the responsibility lies in many directions: first, with a dedicated, loyal, and brilliant faculty, working hard to make Penn State what it is; and then, with some 3,000 other people who assist them and who also are frequently willing and anxious to go far beyond the call of duty. And whatever that duty may be—plowing roads, tending livestock, taking tickets, or performing any of the other tasks which a great university requires, the very fact that all these people are working for Penn State, and willing to work hard for Penn State, is something for which I think the Commonwealth of Pennsylvania should be thankful and proud.

In short I think with many others that we are doing very well.

CALENDAR

Friday, Feb. 8

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Charles A. Ross, Illinois State Geological Survey, on "Evolutionary Paleontology as a Geologic Tool."

Interlandia Folk Dances, 7:30 p.m., HUB ball room.

Artists Series presentation of "The Turn of the Screw," 8:30 p.m., Schwab Auditorium.

Center Stage production of "The Fantasticks," 8 p.m.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Jonathan Branwell, on "Studies of Transformation of *B. subtilis*. I. Physical Evidence for the Size of the Minimal Unit of Geonomic Incorporation."

Saturday, Feb. 9

Artists Series presentation of "The Turn of the Screw," 8:30 p.m., Schwab Auditorium.

Center Stage production of "The Fantasticks," 8 p.m.

Varsity gymnastics, 4 p.m., Rec Hall.

Sunday, Feb. 10

Chapel Service, 10:55 a.m. The Jewish and Christian Service. Rev. P. Barrett Rudd, on "Who Are My Brothers."

Hillel Graduate Student Lecture Series, 8 p.m. Milton Himmelfarb, Commentary magazine, on "The Alienation of the Jewish Intellectual." Open to public.

Monday, Feb. 11

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. H. Ladd Smith, distinguished visiting professor of journalism, on "Cultural Uniformity in a Divided World."

Lecture by Dr. Harold E. Dickson, professor of art and architectural history, on "A Most Honest Abe," sponsored by division of art and architectural history, 7:30 p.m., HUB assembly room.

Center Stage production of "The Fantasticks," 8 p.m.

Engineering Mechanics Seminar, 4 p.m.,

Room 210 Hammond. C. R. Hazell, on "Verification and Utilization of Thermal Stress Similarity Laws."

Tuesday, Feb. 12

Electrical Engineering Colloquium, 4 p.m., Room 219 Electrical Engineering. Dr. John DeBarber, HRB-Singer engineer, on "Ionospheric Radio Wave Diffraction."

Geophysics and Geochemistry Seminar, 3:55 p.m., Room 121 Mineral Industries. Dr. Freeman Gilbert, professor of geophysics, University of California, San Diego, on "Interfacial Pulses and Leaking Modes."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. Philip White, distinguished visiting professor of botany and plant pathology, on "Some Aspects of the Dynamics of Cells."

"Talking Sense," series of films by Dr. Irving J. Lee. Engineering 11 Lecture, 3:55 p.m., Schwab Auditorium.

American Society for Metals meeting, 7:30 p.m., Mineral Industries Auditorium. Dr. Lee S. Richardson, Westinghouse Research Labs, on "Materials for Thermionic Energy Conversion."

Biological Sciences Lecture Series, 3:55 p.m., HUB assembly room (Coffee hour at 3:30 p.m.) Dr. Allen S. Fox, professor of biochemistry, Michigan State University, on "The First Steps in Gene Action."

Center Stage production of "The Fantasticks," 8 p.m.

Series on International Tensions, 4 p.m., Room 214 Boucke. Dr. William Prokasy, psychology, on the possibility of a disarmament race.

Brotherhood Banquet, 6 p.m., HUB ball room. Principal speaker, Rabbi Elias Charney, Philadelphia, on "The New Emancipation Proclamation."

Five O'Clock Theatre, 5:15 p.m., Little Theatre, Old Main. Ron Gaskill's "The King of Goodness Stage," with Richard Davis directing.

Wednesday, Feb. 13

Denis Stevens lecture, 8 p.m., HUB Audi-

torium. "The Fantastic Symphony of Hector Berlioz: A Study in Musical Interpretation."

Center Stage production of "The Fantasticks," 8 p.m.

Thursday, Feb. 14

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Dieter M. Gruen, Argonne National Laboratory, on "Absorption Spectra of 3d, 4f, and 5f Ions in Fused Salt Solutions."

International Film Committee showing of "Ten Days that Shook the World." HUB assembly hall, 3, 7, and 9 p.m. Tickets on sale Monday at HUB desk.

Mining Seminar, 4 p.m., Room 304 Mineral Industries. Charles Manula, on "Monte Carlo Simulation: Aid to Mine Systems Engineering."

Psychology lecture series on genetics and behavior, 8 p.m., 209 Home Economics South. Dr. John Fuller, Roscoe B. Jackson Memorial Laboratory, on genetics and behavioral variability.

Center Stage production of "The Fantasticks," at 8 p.m.

Friday, Feb. 15

American Chemical Society meeting, 8 p.m., Room 112 Buckhout. Dr. Edward M. Kosower, State University of New York, on "Active Sites in Organic Catalysis."

Center Stage production of "The Fantasticks," 8 p.m.

College of Agriculture Series, 4 p.m. HUB assembly room. H. C. Knoblauch, U. S. Dept. of Agriculture, on "Growth of Funds for Research and Development."

Tensions

The final talk in the current series on "International Tensions and Their Possible Resolution," will be given by Dr. William F. Prokasy, assistant professor of psychology, Tuesday, Feb. 12, at 4 p.m. in Room 214 Boucke.

Dr. Prokasy, a member of the faculty since 1957, will discuss the possibility of a "disarmament race."

faculty BULLETIN

Vol. 50, No. 28 Feb. 8, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MISS MILDRED AILMAN
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, Feb. 15

American Chemical Society meeting, 8 p.m., Room 112 Buckhout. Dr. Edward M. Kosower, State University of New York, on "Active Sites in Organic Catalysis."

Center Stage production of "The Fantasticks," 8 p.m.

College of Agriculture Series, 4 p.m. HUB assembly room. H. C. Knoblauch, U. S. Dept. of Agriculture, on "Growth of Funds for Research and Development."

Mineral Industries Colloquium, 3:45 p.m., Room 26, Mineral Industries Auditorium. Dr. Thomas J. Freeman, Jr., University of Missouri, on "Paleontology—New Frontiers."

Interlandia Folk Dance, 7:30 p.m., Room 105 White Hall.

Saturday, Feb. 16

Artists Series program by soprano Phyllis Curtin, 8:30 p.m., Schwab Auditorium.

Center Stage production of "The Fantasticks," 8 p.m.

Sunday, Feb. 17

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Leon Pacala, dean, College of Arts and Science, Bucknell University, on "Defined by Opposition."

Concert by combined Women's Chorus and Men's Glee Club, directed by W. Paul Campbell and Frank Gullo, 3 p.m., Schwab Auditorium.

Hillel Foundation cultural series, 8 p.m. Shlomo Carlebach sings religious, Hasidic, and Jewish folk music.

Monday, Feb. 18

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Frank Neusbaum, professor of theatre arts, on "Brazilian Life and Culture."

Forestry School Lecture by Dr. Andrew McComb, Watershed Management head, University of Arizona, on "Forestry in Europe," 7:30 p.m., Room 112 Buckhout.

(Continued on page four)

Graduate lecture

Dr. Theodore Peterson, dean of the College of Journalism and Communications at the University of Illinois, will deliver the Graduate School Lecture Thursday, Feb. 21, at 8 p.m. in Room 121 Sparks.

President of the Association for Education in Journalism, national organization of university journalism teachers, Dr. Peterson is a member of the accrediting committee of the American Council on Education for Journalism.

From 1915 to 1948 he taught journalism and headed the news bureau at Kansas State University, then joined the Illinois faculty as instructor. He became dean in 1957.

Among his books are "Magazines in the 20th Century"; "Four Theories of the Press"; and "Writing Non-fiction for Magazines."

He is a graduate of the University of Minnesota and was granted the master's degree by Kansas State and doctorate by Illinois.

The Arts

choir concert

The first in a series of three concerts by **Meditation Chapel Choirs** will be presented by Section 3 Thursday, Feb. 21, at 4 p.m. in the Chapel. James Beach will conduct and Ray Zeigler play the organ for the following program: "Psalm 150" and "Now Let All Loudly Sing Praise to God," by Jan Bender; "Holy is God," by C. P. E. Bach; and "Nun Danket Alle Gott," by Pachelbel.

artists series

Phyllis Curtin, Metropolitan Opera soprano, will appear on the Artists Series tomorrow (Saturday) at 8:30 p.m. in Schwab Auditorium. Her program will consist of works by Brahms, Mozart, Handel, Samuel Barber, Oscar Fernandez, Joaquin Rodrigo, and Theodore Chanler. Tickets, if any remain, are on sale at the HUB desk.

The next program in the Series will be given by the **Netherlands Chamber orchestra**, Saturday, Feb. 23, at 8:30 p.m. in Schwab. Tickets for this performance will be on sale to the public Friday and Saturday, Feb. 21 and 22 at the HUB desk.

Szymon Goldberg, conductor and violin soloist, has been director of the Orchestra since its founding in 1955. Although a soloist in his own right, Goldberg spends about half the year with the Orchestra in rehearsal and

(Continued on page four)

Architecture films

A program of four films on architecture will be presented Monday, Feb. 18, at 7:30 p.m. in the Mineral Industries Auditorium.

The films are titled, "Swinging the Lambeth Walk"; "Parade"; "New York, N. Y."; and "Frank Lloyd Wright." The last-named is related to the noted architect's theories of functional architecture and presents an analysis of contemporary styles.

Religion

A series of bi-weekly informal discussions by faculty members and graduate students will explore the subject, "Religion in the Modern World." The first meeting will be held Thursday, Feb. 21, at 4 p.m. in Room 210 Eisenhower Chapel.

The discussions will be based on published materials, copies of which will be available beforehand to faculty members who wish to receive them through campus mail. The first discussion will be on the subject, "Was Albert Camus a Christian?" The article to serve as a basis for discussion appeared in the Feb. 6 issue of Christian Century.

The Faculty Committee of the University Christian Association is sponsor of the series.

Irrational choice

Dr. Harold K. Schilling, dean of the Graduate School, will present the second paper in the current series on the general subject of "The Problem of Irrational Choice," Wednesday, Feb. 20, at 8 p.m. in the Chapel Lounge.

His paper will be concerned with the irrational choice in science. Gilbert Ward, associate professor of physics, will be the discussant for the paper.

The Faculty Committee of the University Christian Association is sponsor of the series.

GRADUATE EXAM

The next Graduate Record Examination will be held Saturday, Saturday, April 27. Completed applications, along with the examination fee, must be received at Educational Testing Service, Princeton, N. J., no later than April 13. Bulletins of information with application forms are available from Dr. Leon Kneebone, Room 117 Buckhout.

PHI BETA KAPPA

All members of Phi Beta Kappa are invited to join in the activities of the local chapter, Lambda of Pennsylvania, and are urged to send their names to Mrs. Frances S. Smith, secretary, at Room 210 Pattee Library or call, UN 5-4361.

Registrar Reports on Enrollment for Winter Term, 1963

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
ABSc	3	186	21	21	250	39	40	246	40	32	194	86				956	202	1158
2-yr. Ag	3	15	1	2	5	4										30		30
Total	6	201	22	23	255	43	40	246	40	32	194	86				986	202	1188
ARTS AND ARCHITECTURE																		
A Art		2		1	25	8	2	37	1	2	21	5				31	73	104
Arch		55	4		46	6	3	38	3	4	23	4	2	13	5	200	6	206
Arts	3	13	2	1	15	6	1	13	5	1	10	4				18	56	74
LArch	1	4		1	14	1	1	23	2		12					56	3	59
Total	4	74	6	3	100	21	7	111	11	7	66	13	2	13	5	305	138	443
BUSINESS ADMINISTRATION																		
Total	3	316	26	29	322	71	74	408	76	61	280	97				1660	103	1763
CHEMISTRY & PHYSICS																		
C&P	3	275	19	3	4	3										259	48	307
CHE				1	53	12	5	59	4	8	45	16				201	2	203
Chem			1	4	65	9	3	27	10	4	17	11				129	22	151
Phys				7	44	9	6	40	11	12	20	8				146	11	157
PM				3	48	7	7	44	8	7	26	6				135	21	156
SC				2	11	53										61	5	66
Total	3	275	20	20	225	93	21	170	33	31	108	41				931	109	1040
EDUCATION																		
AEd				5	23	13	10	36	13	11	31	6				18	130	148
Ed	9	345	132		2	2	1	1								90	402	492
EKEd			1	12	186	62	42	262	47	32	185	48				14	863	877
lArt				3	3	1	2	5	4	9	4	9				40		40
MuEd					15	4	5	14	6	1	11	7				32	31	63
Psy				3	80	20	17	88	19	34	73	18				207	145	352
RehEd					8	6	8	24	5	7	12	5				25	50	75
SecEd				14	223	47	57	247	49	56	174	52				419	500	919
VIEd									1			2				2	1	3
Total	9	345	133	37	540	155	142	677	144	150	490	147				847	2122	2969
ENGINEERING																		
AerSP		1		8	73	6	9	47	14	6	33	16				213		213
AgE		20			10	1	1	7	2	1	5	3				50		50
AE		14	2	1	10	1	2	6	1		4	1	1	7	2	52		52
CE				6	32	18	5	20	53	9	30	17	14			203	1	204
E E				18	146	48	29	160	35	35	136	65				670	2	672
Engr	9	521	29	11	19	3	1	1								590	4	594
EMch			1	1	8		1	16	3	2	15	3				50		50
ESc				2	12	1		16	2		15	1				48	1	49
IE			1	3	25	6	9	41	7	6	22	16				136		136
ME			2	10	66	11	10	79	25	9	61	28				300	1	301
SE												1				1		1
Total	9	556	35	60	401	95	67	393	142	68	321	151	15	7	2	2313	9	2322
HOME ECONOMICS																		
HEc	4	101	47	7	144	32	19	123	26	18	92	33				79	567	646
2 HFS		38	1	1	25	3										64	5	68
Total	4	139	48	8	169	35	19	123	26	18	92	33				142	572	714
THE LIBERAL ARTS																		
AL		1	3	25	592	76	75	399	100	76	251	86				654	1030	1684
DDP					1												1	1
Journ				4	55	16	12	62	12	5	49	7				113	109	222
LMR				1	11	1	1	13	2		11	2				40	2	42
LA	12	567	127	1	7	1	2	1			1	1				314	406	720
Math				4	35	7	9	21	10	11	7	7				68	43	111
Total	12	568	130	35	700	102	99	496	124	92	319	103				1189	1591	2780
MINERAL INDUSTRIES																		
CerT				1	12		1	18	1	2	8	3				44	2	46
FT					11			4	3		5	3				26		26
Geog						1		5			4	3				11	2	13
GSc			1	1	14	3	3	14	8	3	10	2				55	4	59
Metal					15	1	1	20		2	14	5				58		58
Meteo		1			20	4	3	17	6	2	38	3				90	4	94
MnEc					5	1		5		1	7	2				21		21
MnI	2	63	5	5	5	1										80	1	81
MPE								3		1	3	1				5		5
MngE				2	5	8	1	1	2		5	2				26		26
PNGE					4	2	2	3	1	1	5	3				21		21
Total	2	64	6	9	91	21	11	90	21	12	99	27				440	13	453

Registrar Reports on Enrollment for Winter Term, 1963

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
PHYSICAL EDUCATION & ATHLETICS																		
PhEd	4	30	11	1	40	10	10	49	13	5	48	20				141	100	241
RcEd					5	1	2	14	4		8	4				24	14	38
Total	4	30	11	1	45	11	12	63	17	5	56	24				165	114	279
DIVISION OF COUNSELING																		
Coun.	7	227	31	33	285	53	19	77	14	5	7	2				665	95	760
Total	7	227	31	33	285	53	19	77	14	5	7	2				665	95	760
Total Undergrad.																		
Students, Univ. Pk.	63	2795	468	258	3133	700	511	2854	648	481	2032	724	17	20	7	9642	5069	14711

Resident Credit Summary

	Freshman		Sophomore		Junior		Senior		Graduate		Special		Total		
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
U.P. Campus															
Full-Time	2199	1123	2637	1439	2518	1466	2206	1015	546	82	33	14	10139	5139	15278
Part-Time	2	2	13	2	16	13	51	9	1277	255	127	101	1486	382	1863
Total	2201	1125	2650	1441	2534	1479	2257	1024	1823	337	160	115	11625	5521	17146
	3326		4091		4013		3281		2160		275				
Other Campuses															
Full-Time (4 year)	721	342	472	159	31	5	5	1			8	2	1237	509	1746
Part-Time (4 year)	6	4	6	6	4		3	1	1		41	33	61	44	105
Full-Time (2 year)	825	11	633	1							2		1460	12	1472
Part-Time (2 year)	22		35	1							4		61	1	62
Total	1574	357	1146	167	35	5	8	2	1		55	35	2819	566	3385
TOTAL ALL	3775	1482	3796	1608	2569	1484	2265	1026	1824	337	215	150	14444	6087	20531
CAMPUSES	5257		5404		4053		3291		2161		365				

RESIDENT CREDIT

	Undergraduates		Graduates		Specials		Total Resident
	FT	PT	FT	PT	FT	PT	Credit
Allentown	97	2				1	100
Altoona	339	13			9	30	391
Behrend	308	5				3	316
DuBois	122	3				8	133
Hazleton	226	9				2	237
McKeesport	336	13				8	357
Mont Alto	85						85
New Kensington	94	1				2	97
Ogontz	852	15		1		13	881
Pottsville	191	1			2	11	205
Scranton	98	1			1		100
University Park	14603	108	628	1532	47	228	17146
Wilkes-Barre	156	13					169
Wyomissing	187	5					192
York	115	7					122
Grand Total	17809	196	628	1533	59	306	20531

RESIDENT NON-CREDIT

	Short Course	Formal Cont. Ed.	Informal Cont. Ed.	Total	Grand Total
		39		39	430
			77	77	393
					133
					237
			56	56	413
					85
			24	24	121
					881
					205
					100
	1582		475	2057	19203
					169
		125	61	186	378
					122
	1582	164	693	2439	22970

Graduate/Special Students by Colleges

	Graduates		Specials	
	M	W	M	W
Agriculture	259	20	9	1
Arts and Arch.	23	17	..	..
Business Ad.	69	1	15	4
Chem. & Phys.	314	21	16	7
Education	268	109	28	34
Engineering	242	1	12	1
Home Econ.	25	40	..	2
Liberal Arts	272	103	70	66
Mineral Ind.	254	5	6	..
Physical Ed.	31	10	4	..
General Graduates	22	7	..	..
Interdisciplinary	44	3	..	..
Total at Univ. Park	1823	337	160	115

Non Resident Summary

Non Resident Credit	
Cont. Ed. Graduate	45
Cont. Ed. Special	102
Graduates, in absentia	109
Undergrad. correspondence	803
Total	1059
Non Resident, Non Credit	
Formal Cont. Ed.	111
Informal Cont. Ed.	3812
Correspondence	5789
Total	9712
Grand total	10771

Grand Summary

Undergraduates	18808
Graduates	2315
Specials	467
Short courses	1582
Formal Cont. Ed.	275
Informal Cont. Ed.	4505
Correspondence	5789
Grand Total*	33741

* This report includes all registrants received as of 1/31/63.

Calendar—

(Continued from page one)

Monday, Feb. 18

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. L. A. Richardson, professor of architectural engineering, on "Evolution of Structural Forms in Architecture."

Four films on architecture, presented by department of architecture, 7:30 p.m., Mineral Industries Auditorium.

Tuesday, Feb. 19

English Colloquium, 7:30 p.m., Nittany Lion Inn. James Holly Hanford, visiting professor of English, on "Milton."

Student music recital, 4 p.m., Armory.

Engineering 11 lecture, film series on "Talking Sense," 3:55 p.m., Schwab Auditorium.

Wednesday, Feb. 20

Alard String Quartet concert, 8:30 p.m., Schwab Auditorium.

Mathematics Colloquium, 4 p.m., Room 109 Osmond. Dr. Jack Tits, professor of mathematics from Belgium, on "Generalized Polyhedra."

Faculty Papers on "The Problem of Irrational Choice," 8 p.m., Chapel Lounge. Dr. Harold K. Schilling, dean of the Graduate School, on science, sponsored by U.C.A. Faculty Committee.

Varsity basketball, 8 p.m., Rec. Hall, vs. West Virginia.

Thursday, Feb. 21

Philosophy Colloquium, 4 p.m., Room 203 Willard. Father Juentin Lauer, associate professor of philosophy, Fordham University, on "The Hegelian Revolution."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Edward Anders, Uni-

versity of Chicago, on "What We Can Learn from Meteorites."

International Film Committee showing of "The Last Bridge," 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk Monday.

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Burke Trafton, on "Inventory Control for Mine Production Scheduling."

Concert by Meditation Chapel Choir, Section 3, directed by James Beach, 4 p.m., The Chapel.

Bi-weekly faculty series of informal discussions on "Religion in the Modern World," sponsored by U.C.A. Faculty Committee, 4 p.m., Room 210 The Chapel. This week, "Was Albert Camus a Christian?"

Friday, Feb. 22

Interlandia Folk Dances, 7:30 p.m., Room 105 White Hall.

The Arts—

(Continued from page one)

concert. He appeared once before in concert in Schwab in a small chamber group.

The Orchestra, composed of 25 string instrumentalists, emphasizes Baroque and Modern music. The program will include Vivaldi's "Four Seasons"; Schubert's "Adagio and Rondo for Violin and String Orchestra"; and Stravinsky's "Concerto in D for String Orchestra."

chorus concert

A 210-voice group composed of the Women's Chorus and Men's Glee Club will present a concert Sunday, February 17, at 3 p.m. in Schwab Auditorium, directed by W. Paul Campbell and Frank Gullo and featuring a brass choir in accompaniment.

The program will open with two numbers with the brass choir, Haydn Morgan's "Ours Is the World," and Miklos Rozsa's "Allelujah," from "Ben Hur." Noble Cain's spiritual, "In That Great Getting Up Morning" and Houston Bright's "I Hear a Voice A-Prayin," will follow. Other works, by Roy Ringwald, Carl F. Mueller, Carl Bohm, William Schuman, Clay Boland, and two numbers from Lerner and Loewe's "Brigadoon" will precede Alexander Borodin's "Polovetzian Dance and Chorus," in which trumpets, trombones, piano, organ, harp, tympani, and bass will accompany.

altman show

The one-man show of prints and drawings by Harold Altman, associate professor of art, will run from Feb. 17 to March 8 in the HUB gallery.

alard quartet

Works by Beethoven, Villa Lobos, and Walter Piston will be featured by the Alard Quartet Wednesday, Feb. 20, at 8:30 p.m. in Schwab Auditorium. Piston's "Quartet No. 4," Villa-Lobos' "String Quartet No. 5," and Beethoven's "Quartet in F. Opus 59, No. 1" will comprise the program.

fabrics exhibit

Selected textiles from Laverne of New York constitute an exhibit titled "Contemporary Fabrics" now on display in Temporary Classroom Building, Room 105 Gallery and will continue until Feb. 27. The display is expected to be of interest to those concerned with interior design and home decoration.

faculty BULLETIN

Vol. 50, No. 29 Feb. 15, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

CALENDAR

Friday, Feb. 22

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. F. C. Kruger, director of mining and exploration, International Minerals and Chemical Corporation, on "Technical Problems in a Mining Venture."

Interlandia Folk Dances, 7:30 p.m., Room 105 White Hall.

Saturday, Feb. 23

Lecture sponsored by U.C.A. Faculty Committee, 8 p.m., The Chapel Lounge. Dr. Roger L. Shinn, Union Theological Seminary, on "The New Ethics in the New Economy."

Varsity gymnastics, vs. Pittsburgh, 3 p.m., Rec Hall; varsity wrestling, vs. Pittsburgh, 8 p.m., Rec Hall.

Artists Series program by the Netherlands Chamber Orchestra, 8:30 p.m., Schwab Auditorium.

Sunday, Feb. 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger Shinn, Union Theological Seminary, on "Doing Good and Doing Gooders."

Hillel Foundation Cultural Film Series, 8 p.m., "Rembrandt."

Monday, Feb. 25

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. John P. Hagen, professor of radio astronomy, on "Space Research."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond, N. J., Palladino, on "Reactor Design."

Physical Education and Athletics faculty meeting, 7 p.m., White Building.

Hillel Foundation Graduate Student Lecture Series, 8 p.m., Dr. Joseph H. Dahmus, professor of medieval history, on "A Catholic Looks at The Spanish Inquisition."

(Continued on page four)

Community show

Four members of the faculty will perform in the final show of the winter season of the State College Community Theatre. The show is titled "Little Mary Sunshine," and will be given Thursday, Feb. 28, and Friday and Saturday, March 1 and 2, in the State College Senior High School Auditorium at 8:15 p.m.

Mary Ellen Savage, instructor in speech, will be Little Mary Sunshine; James Johnson, instructor in speech, as Corp. Billy Jester; Jack Brillhart, assistant professor of speech, as "Big Jim" Warington; and Virgil Neilly, associate professor of engineering, as General Oscar Fairfax, ret.

Offstage participants include E. C. Wareham, Jr., instructor in music, Robert Wolfe, acting assistant to the dean of the College of Arts and Architecture, and Ray T. Fortunato, director of personnel services.

The show is for the benefit of the College Area Hospital Auxiliary.

Irrational choice

Dr. Stanley H. Rosen, assistant professor of philosophy, will present the third discussion in the four-part series on "The Problem of the Irrational Choice" Wednesday, Feb. 27, at 8 p.m. in The Chapel Lounge.

He will speak on "The Problem of the Irrational Choice in Religion," with Dr. Luther H. Harshbarger, professor of humanities and religious studies as discussant.

The series of faculty papers is sponsored by the Faculty Committee of the University Christian Association. Faculty members, graduate students, and others interested are invited to participate.

New ethics

Dr. Roger L. Shinn, professor of Christian Ethics at Union Theological Seminary, will speak on "The New Ethics in the New Economy," Saturday, Feb. 23, at 8 p.m. in The Chapel Lounge.

Dr. Shinn is a former member of faculties at Heidelberg College and Vanderbilt University. Among his books are "Beyond This Darkness" and "The Existentialist Posture."

A second lecture will be given Saturday, March 2, by Dr. Joseph Haroutunian, professor of Theology at the University of Chicago, on the subject, "Conversation between Christians and Other Religious Men."

Both lectures are sponsored by the Faculty Committee of the University Christian Association.

Study abroad

A total of 116 students will study during the Spring Term at the Universities of Strasbourg, France, Cologne, Germany, and Salamanca, Spain, under the Study Abroad Program initiated two years ago by the College of the Liberal Arts.

In addition, 17 architectural students, under a separate but attached program, will study at the Architectural Association School of Architecture in London.

Forty-four students will study at Strasbourg, 34 at Salamanca, and 21 at Cologne.

Faculty advisors who will travel with the students are Dr. Winston R. Weisman, head of the department of art, to Cologne; Dr. Vaclav Mares, associate professor of economics, to Strasbourg; Mrs. Eileen P. de Pfeiffer, instructor in Romance languages, to Salamanca; and Philip F. Hallock, acting head of the architecture department.

Dr. Dagobert de Levie, assistant to the dean of Liberal Arts, is director of the program.

Term system

The merits of the present term system will be discussed in open debate, sponsored by Alpha Omicron Pi sorority, Tuesday, Feb. 26, at 4 p.m. in the HUB Assembly Room.

Debaters on the Pro side will be Dr. R. G. Bernreuter, Dean Abram W. Vandermeer, and Janis Summer-ville, president of A.W.S. For Con side, will be Dr. Lawrence Lattman, Dr. Henry Albinski, and George Gordon, chairman of the Liberal Party in student government. Dr. Robert Dunham will be chairman.

The audience will be permitted to choose which side it feels is arguing the best case.

The question to be debated is "This House Approves the Pennsylvania State University's Term System."

Library

THE initial step in the program of developing automated procedures in the University Library system is underway in the acquisitions department where a redesign and updating of current methods is being studied.

A graduate assistant in industrial engineering is making a thorough study of present procedures, explains Thomas Minder, who is directing the research and development operation in the Library. The study will in-

(Continued on page four)

Latin America needs great

LATIN AMERICA is so large and has so many needs that aid from the whole world is the least that it can use to solve its problems, says Dr. Thorsten V. Kalijarvi, professor of International and Public Affairs in the Center for Continuing Liberal Education.

"The test is not who should aid Latin America but what is intended in providing the aid," Dr. Kalijarvi argues. "The United States cannot do the job alone, but it must do what it can; the same can be said for Italy, France, Germany, or any other country, because it is in the best interests of all to help.

"If that aid is given to subvert the objectives of the country, politically or economically, then it is not desired."

Dr. Kalijarvi recently discussed "Economic Problems with Latin America," at a "Conference on United States Economic Links with Latin America." The Conference was sponsored by the University of Wisconsin and The Johnson Foundation, with the Rotary Club of Racine, Wisconsin, as host. It was attended by civic leaders, and Latin American and United States authorities on affairs of the western hemisphere.

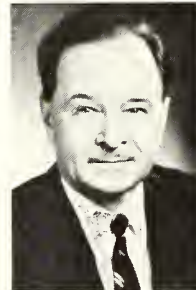
In his talk, Dr. Kalijarvi pointed out that, "Our most useful role will be that of a promoter of cooperation among the more industrialized countries of the world, and international lending agencies, in order to make available as much financial assistance as possible to the individual Latin American countries up to the point where they can productively employ such capital in accordance with reasonable standards of economic performance and until the growth has become self-sustaining."

And, Dr. Kalijarvi adds, the same kind of cooperation is needed not only in loans and grants but in trade, investments, technical and professional know-how, and people.

"It is no exaggeration to say that their economic problems must be looked upon as our own either in part or in whole. When all is said and done we are important to each other; were it not for our current governmental programs the future of Latin America might not be as bright as it is. And then there is the thought that Latin America is now so important for our security and we for theirs that we have no choice but to find ways of getting along together."

Noting that generalizations about Latin America can be misleading, Dr. Kalijarvi says nevertheless that the

Dr. Kalijarvi, of the C.C.L.E. staff, is former U.S. ambassador to El Salvador and has held several positions in the Department of State. He is author of "Land of Lords and Lizards," published in 1962, a study of Central America.



social system in most countries is still basically two-class, consisting of a small, wealthy upper class and a larger lower class composed of poor illiterate and under-privileged people. The whole continent is in a state of social and political ferment, and revolt and insurrections are constitutionally guaranteed rights.

"The social and economic revolution may go on until the end of the century," he says, "and it is directed against years of illiteracy, poverty, disease, and want, to which have been added recently homelessness, city slums, and ideological agitation.

"Twentieth century forces are making basic modifications in all the agricultural economies. These changes threaten the control of the elite, whose power has always rested on the finca economy. If the elite falls, the church will lose much of its influence and shifts in military power will take place.

In the last two decades two trends have been noted: from 1943 to 1953, a wave of governmental changes and of reform; from 1953 to 1962, a period of disillusionment, when the rising middle class lost interest in reform as labor leaders pushed too far, reformers failed to deliver on promises, and Communists and Leftists resorted to violence, demagoguery, and extremism.

Nevertheless, the changes in the social order appear to be inevitable and help from the outside necessary. Latin America now has available many types of financing—from countries and from the United Nations—but private investment capital has been discouraged by expropriation of for-

(Continued on page four)



Dr. Nichols

"Zach Taylor's Little Army" is the title of Dr. Edward J. Nichols' book published this week by Doubleday and Co. It tells the story of the Mexican War campaign of Zachary Taylor and the four battles he won with an under-

manned army against superior numbers of Mexican troops. As a result of the victories, Zach Taylor gained great popularity at home, leading to the presidency of the United States. Dr. Nichols' biography of General John Fulton Reynolds, "Towards Gettysburg," was the first book of the University Press, in 1958, and was later named a selection of the Civil War Book-of-the-Month Club. He is the author of two earlier novels.

Dr. Woldemar A. Weyl, Evan Pugh Research Professor of Physical Science, and Evelyn C. Marboe, associate professor of mineral sciences, are authors of a new book, "The Constitution of Glasses: A Dynamic Interpretation, Vol. I," published by Interscience Publishers, division of John Wiley and Sons, Inc. Volume II is in preparation, and will be concerned with the constitution and properties of some representative glasses.

Paul N. West, visiting associate professor of English, is author of "I. Said the Sparrow," a boyhood autobiography published by Hutchinsons. Later this year the same publisher will issue a two-volume study, "The Modern Novel," which surveys the developments between 1900 and 1960 in Europe and America, and a second novel, "Tenement of Clay." Also, Prentice-Hall will publish "Byron: Twentieth Century Views," an anthology of modern Byron criticism. West had previously written another book on Byron, "Byron, and the Spoiler's Art," issued by St. Martin's Press in 1960.

The University has made arrangements with the Avis Rent-a-Car System whereby academic staff members may apply on an individual basis for a 20% discounted credit card. Those wishing to obtain a credit card should apply to Mr. R. J. Arena, District Sales Manager, 250 Mt. Lebanon Blvd., Pittsburgh 34, Pennsylvania, giving name, address, and age.

FACULTY LUNCHEON CLUB



Dr. Hagen

Dr. John P. Hagen, professor of radio astronomy, will address the Faculty Luncheon Club Monday, Feb. 25, at 12:30 p.m. in HUB dining room "A." Tickets for lunch may be obtained at the HUB desk. Dr. Hagen, who will speak on "Space Research," came to the University last fall to

originate the research work in radio astronomy.

STEVENS LECTURE

The lecture by Denis Stevens, distinguished visiting professor of music, originally scheduled for March 6 in the Little Theatre in Old Main has been changed to March 9, at 8 p.m., in Schwab Auditorium. The distinguished Swiss tenor, Hugues Cuenod, will sing and the Alard Quartet and Dr. Leonard Raver, at the harpsichord, will assist Mr. Stevens in the lecture, which is titled "Ornamentation and Realization in Monteverdi's Shorter Stage Works."

WOMEN'S CLUB SHOW

The Junior Women's Club of State College, sponsors yearly of a musical show, encourage faculty members and graduate students to attend the talent preview night, Feb. 26, at 8 p.m. in Hillel Foundation, when the show's director will explain the show, which will be held March 15-16. Singers and dancers are needed.

GOLDWATER LECTURE

The date for the lecture by U. S. Senator Barry Goldwater has been changed to March 8. He was originally scheduled to speak on the University Lecture Series April 5.

WEAPONS

The U.S. Navy has selected the Ordnance Research Laboratory to be technical director for the multi-million dollar development program of the Weapon System Torpedo EX-10. The Laboratory has provided research and feasibility studies on system and subsystem concepts underlying the EX-10 and was chosen to conduct the development program to insure timely and economical completion.

LIBRARY WEEK

President Walker has been named Pennsylvania Chairman for National Library Week, which will be observed April 21-27 by the Pennsylvania branch of the American Library Association in cooperation with the National Book Committee, Inc. General theme of the observance this year is "Reading—The Fifth Freedom—Enjoy It."

RABBI KAHN

Rabbi Benjamin M. Kahn, who was director of Hillel Foundation in State College for 19 years and who is national director of all Hillel Foundations, will return for a talk Friday, March 1, at 8 p.m. in the Foundation auditorium. He will speak on the general theme of student religious commitment.

The Arts

theatre arts

"The Visit," by Friederich Duerrenmatt, will be presented by the University Theatre Thursday, Friday, and Saturday, Feb. 28, March 1 and 2, in Schwab Auditorium, at 8 p.m.

Warren Smith directs the cast of 35 in the gripping drama. Reservations may be made during box office hours by calling UN 5-6309, or may be purchased at Schwab Auditorium Monday through Friday, 11 a.m. to 1 p.m. and 4 to 6 p.m.

Alfred Lunt and Lynn Fontanne starred in the original Broadway production of the play, in 1958. "The Visit" is a controversial modern drama which revolves around the mission of a middle-aged woman to "buy justice" when she returns after many years to the hometown from which she had fled as a young girl in shame and poverty. Nancy Huber and Luke Sickle have the principal roles.

artists series

The Netherlands Chamber Orchestra, directed by Szymon Goldberg, will play works by Vivaldi, Schubert, and Stravinsky in its program tomorrow (Saturday) at 8:30 p.m. in Schwab Auditorium. Tickets, if any remain, are on sale at the HUB desk. The Orchestra is composed of 25 string instrumentalists and features Baroque and Modern music.

The next presentation in the Artists Series will be given by a company of dancers led by Ruth St. Denis with a program titled, "America Dances," Sunday, March 3, at 8 p.m. in Recreation Building.

Premiered at the Boston Arts Festival in the summer of 1961, the pro-

gram includes dances from ballet to show business, with the ballroom dances of Vernon and Irene Castle, the songs and dances of George M. Cohan, modern dance, and classical and contemporary ballet. In addition to Miss St. Denis, who is now 86 years old, the dancers will include Violette Verdy, Thomas Andrew, Don Liberto, Norman Walker, Jenny Workman, Frank Derbas, Rochelle Zide and others. The program was conceived and written by Walter Terry.

Miss St. Denis will perform "The Incense," first given in 1906, at the time she left the vaudeville stage to develop the ballet. She will also narrate the program.

Tickets for "America Dances," will be on sale at the HUB desk Thursday, Feb. 28, and Friday and Saturday, Mar. 1 and 2.

choir concert

Section 2 of the Meditation Chapel Choirs will present the second in a three-part series of concerts Tuesday, Feb. 26, at 8 p.m. in The Chapel.

James Beach will direct the choir, which will be aided by flutist Mrs. Overda Page, and organist William Mastrocola.

The program will include Palestrina's "Benedictus qui venit"; "Judas mercator pessimus" by Tomas Luis de Victoria; "Jesu, dulcis memoria," by Jacob Handl; "Miserere mei Deus," by Antonio Lotti; "The Falcon" by John Gerrish; and Harald Rohlig's "O Holy Jesus."

The final concert in this series will be given at the regular Chapel Service, Sunday, March 10, when Mrs. Willa Taylor will direct the Chapel Choir in Randall Thompson's "The Peaceable Kingdom."

CALENDAR —

(Continued from page one)

Tuesday, Feb. 26

Five O'Clock Theatre, 5:15 p.m., Little Theatre, Old Main, "What Are Prejudices For," by Linda Freid, directed by Art Kress.

Debate on the term system, 4 p.m., HUB assembly room, sponsored by Alpha Omicron Pi sorority. Dr. R. G. Bernreuter, Dean Abram W. Vandermeer, Dr. Lawrence Lattman, Dr. Henry Albinski, Janis Summerville, and George Gordon.

Economics Faculty Seminar, 12:30 p.m., HUB dining room "A." Dr. Ervin P. Hexner, on "International Monetary Administration."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Dr. F. R. Matson, assistant dean for research, College of the Liberal Arts, on "Archaeologist at Work in the Near East."

Meditation Chapel Choir program, 8 p.m., The Chapel.

Wednesday, Feb. 27

U.C.A. Faculty Committee series on "The Problem of the Irrational Choice," 8 p.m., The Chapel Lounge. Dr. Stanley H. Rosen, assistant professor of philosophy, on religion.

Thursday, Feb. 28

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Robert West, University of Wisconsin, on "New Aromatic Anions."

International Film, "The Game of Love," 3, 7, and 9 p.m., HUB assembly room.

Lecture on Genetics and Behavior, 8 p.m., Room 209 Home Economics South. Dr. Benson Ginsburg, University of Chicago, on autogenic behavior in mice.

University Theatre production of "The Visit," 8 p.m. Schwab.

Friday, March 1

University Theatre production of "The Visit," 8 p.m., Schwab.

Interlandia Folk Dances, 7:30 p.m., Room 105 White Hall.

LIBRARY —

(Continued from page one)

clude a consideration of the use of such equipment as digital computers and other equipment to reduce costs and speed operations.

The industrial engineer, Gerald Lazorick, is taking data, developing flow charts, and making cost and time studies of the overall operations and of the sub-routines so that there will be available sufficient data to make comparison of any new operations with present practices.

At the present time, industrial engineering students in I.E. 327, taught by R. A. Olsen, are participating in the work by making a two-week sampling study. These studies will help Minder and Lazorick to determine the present operating costs of the acquisition department.

Following the studies by Lazorick, a sample design will be developed and tested without interfering with present operations to point up errors and discover the problem areas. Then a full-scale test will be made.

The program anticipates the use of the data processing equipment now in Boucke Building for the study phase. Ultimately, the IBM 7070 digital computer in Old Main will be used when the system becomes operative.

The Pattee Library program (See Faculty Bulletin, Nov. 9, 1962) is expected to be the first in the country to apply automated methods to overall operations. The program in the acquisitions department, where automated procedures appear to be easily applicable, is expected to point up desirable methods in other areas.

LATIN AMERICA —

(Continued from page two)

eign properties by some governments and the prejudice against American investments has been strong.

One reason for Latin America's relative insolation has been the hostility of local interests and high taxes and discriminations which drive out private capital and which no amount of government-to-government financing can ever balance.

"This can only be changed by a change in the Latin American attitudes towards the foreign business and capital within their borders," says Dr. Kalijarvi.

"There are signs this might be in the making."

Certainly much capital has already been invested in Latin America by private interests, in Europe as well as the U. S. For example, up to 1958 U. S. interests had invested about \$10 billion, 91 per cent of it held by 300 large companies. Most of it was invested in tropical agriculture, mining, smelting, and petroleum.

Some private investors have demonstrated a sense of responsibility to the communities they are in; for example, Sears, Roebuck and Co. and Esso Oil in their training of personnel for their stores and stations and other companies in their marriage to local capital for development.

But governments and the United Nations need to provide funds through national development banks which in turn can make loans to domestic enterprises, both agricultural and industrial. The Export Import Bank, the International Bank for Reconstruction and Development, the Development Loan Fund, and the International Development Associa-

tion are all available to serve Latin American needs.

"To keep the Communist Bloc trade with Latin American countries to a marginal significance," says Dr. Kalijarvi, "I believe it is extremely important for the United States to lend a sympathetic ear to Latin American needs for obtaining greater opportunity for exports abroad.

"The Communist offensive is making significant strides forward as the Bloc shows increased willingness to absorb substantial amounts of the surpluses of primary commodities such as sugar and by extending loans for carefully selected projects.

"The skillful playing on the Latin American need for substantial increases in export markets provided some countries with a geographical diversification away from their heavy dependence on U. S. export market, which always seems to be welcome."

Latin American countries are nearly as much a mixture of nationalities as the U.S.—Indians, Spanish, and Portuguese from the earlier periods and German, Italian, Irish, Turkish, Chinese, Japanese, and others from the last century. Yet, curiously, those who came later did little to change the countries to which they had emigrated but rather fitted into the existing pattern. Newcomers melted into either the elite class or the lower class, and there was little development of a middle class until the last two decades. Now the changes are underway and the people want to make the changes quickly.

"They will take the help wherever they can get it," concludes Dr. Kalijarvi, "as long as they can keep their objectives."

faculty BULLETIN

Vol. 50, No. 30 Feb. 22, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Agriculture

A pat on the back was given to research in college of agriculture laboratories of the nation by Dr. Ernest M. Allen, associate director of the National Institutes of Health, who spoke at a seminar recently.

"Physiological and biochemical findings made in agriculture college research laboratories on farm animals are just as valuable to a better understanding of human physiology and biochemistry as are findings in medical schools made upon dogs or rats or other common laboratory animals," he said.

Dr. Allen's talk, given at a College of Agriculture seminar, was titled "Agriculture and Medicine—Two Research Fields with Many Common Goals."

Physics, chemistry, and biology, he explained, are the roots and trunk of the tree of scientific knowledge.

"If we wish to continue to harvest the fruit of this tree in the form of better health for man, animals, and plants, society must continue to give it sustenance through more research by more trained research manpower."

Dr. Allen made a particular point of praising Penn State's current research effort on physiology of reproduction, which he called "one of the most impressive of the land-grant institutions."

The next seminar in the series will be held today (Friday) at 4 p.m. in the HUB Auditorium when Robert H. White-Stevens, research and development official of the American Cyanamid Co. will speak on "Agricultural Research in Industry."

Goldwater talk

Sen. Barry Goldwater, Republican senator from Arizona, will speak on the University Lecture Series Friday, March 8, at 8:30 p.m. in Schwab Auditorium.

Tickets will go on sale to the public Wednesday, March 6, at the HUB desk.

Born in 1909 in Phoenix, he attended Staunton Military Academy and the University of Arizona. He has been U. S. Senator since 1953. He served in the Army Air Force, 1941-45.

Irrational choice

John E. Haag, instructor of English and an accomplished poet, will be the speaker Wednesday, March 6, at 8 p.m. in The Chapel Lounge in the fourth of a four-part series on "The Problem of the Irrational Choice."

The series is sponsored by the Faculty Committee of the University Christian Association and is intended for faculty members and graduate students, as well as any other interested persons.

Mr. Haag will speak on "The Problem of the Irrational Choice in the Creative Arts."

Historical

The Smithsonian Institution will soon receive a rare hot-air engine used here around the turn of the century. A Stirling-cycle engine, it was used to pump well water for homes, farms, and institutions.

Since 1918, when it was rescued from a fire which destroyed the old Engineering Building near the main gate, the engine has not been used. It is the only engine of its type the Smithsonian has been able to find.

Russian

Dr. Felix J. Oinas, professor of Slavic languages and literatures at Indiana University, will speak on "Russian Heroic Epic," Monday, March 4, at 8 p.m. in Room 123 Chambers, sponsored by the department of Slavic languages and the Russian Area Committee.

A native of Estonia, Dr. Oinas was educated at Tartu University, Budapest University, Heidelberg, and Indiana University, where he received the doctorate degree in 1952.

He has taught at Budapest, Baltic (in Hamburg), Wayne, and Indiana universities. He has done much work in Finno-Ugric folklore and has a Ford Foundation Summer Grant to continue his studies in the area.

France

Andre Philip, French political leader, former Minister of Finance, and professor of Labor Economics at the Sorbonne, will talk on "France and the Atlantic Community," Thursday, March 7, at 8 p.m. in Hillel Auditorium on Locust Lane.

The talk is sponsored by the department of political science and the Social Science Research Center.

M. Philip has served France in many capacities since he was first elected to the Chamber of Deputies in 1936, and has held academic positions at the University of Lyons, and the European University at Saarbrücken. He has been a leader in promoting social reform in France.

Conference

An invitational conference in Education sponsored by the University Christian Association will be held Saturday, March 9, in the Helen Eakin Eisenhower Chapel beginning at 10 a.m.

Grants from the Danforth Foundation and the Westminster Foundation have made the conference possible.

Title of the conference is "The Process of Education in a Mass Society. The Problem of Maintaining Individuality."

Dr. Dugald Arbuckle, professor of education at Boston University, will address the group at 10:30 a.m. on "Learning, Counseling, and Teaching."

At 1:15 p.m., Dr. Perry D. LeFevre, academic dean and professor of constructive theology at Chicago Theological Seminary, will speak and at 2:30 a panel discussion on the general theme will be held, with Dr. Arbuckle and Dr. LeFevre being joined by Dr. Robert E. Tschann, assistant dean of the Graduate School, and Dr. Harry K. Hutton, associate professor of education. Moderator of the panel will be Dr. Donald J. Willower, assistant professor of education.

Faculty aide

The program of Faculty Aide Scholarships initiated two years ago will be resumed again this summer with approximately 100 scholarships available.

Deadline for applications, which are made by the faculty member, is April 19.

Last summer 70 junior and senior students were aided through this program, which provides \$100 for either research or teaching duties by the student in support of the work of a
(Continued on page two)

PERSONNEL MATTERS

Dr. Sarvadaman Chowla, professor of mathematics at the University of Colorado and a specialist in number theory, has been appointed research professor of mathematics, effective Sept. 1. Born in London, he received the master of arts degree from Punjab University, India, and his doctorate from Cambridge. He has done work on the theories of the Indian mathematician, Ramanujan. He has held teaching positions at Andhra University and Government College in India and at the University of Kansas. He has been in his present position since 1952.

Stanley G. Gesell, associate professor of entomology extension, has been granted additional leave of absence for the Winter and Fall Terms to continue his graduate studies at Purdue University. He is seeking a master's degree in entomology.

Dr. Howard B. Palmer, head of the department of fuel technology, has been granted a leave for the Spring and Summer Terms to do research in chemical processes in hot gases at Imperial College, London, England.

Dr. John A. Ferguson will be guest scholar at the Brookings Institute Center for Advanced Study during a leave for the Spring Term. He will conduct a survey of ways in which Federal agencies evaluate programs.

Aubrey D. Vose, instructor in agricultural economics extension, has been granted a leave of absence for the Winter and Spring Terms to do graduate work at the Eastern New Mexico University studying for his master of science degree in business administration.

Dr. Alex Black, assistant director of the Agricultural Experiment Station, has been granted a six-month leave, effective Feb. 1 to visit about 25 agricultural experiment stations throughout the country and discuss research administration and related problems.

James A. Rhodes, counselor coordinator for the East Halls area in the Office of the Dean of Men for the past two years, has been named assistant to the dean of men.

Michael P. Hottenstein, former consultant for R.C.A. and teaching associate at Indiana University, has been named assistant professor of management. He is a graduate of Lebanon Valley College and received his master of science degree in business administration from Penn State in 1960. He expects to receive his doctorate from Indiana University in June.

CALENDAR

Friday, March 1

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. H. Pohl, Brooklyn Polytechnic Institute, on "Electronic Properties of Molecular Solids."

University Theatre production of "The Visit," 8 p.m., Schwab Auditorium.

College of Agriculture Research Seminar, 4 p.m., HUB Assembly Room. Robert H. White-Stevens, American Cyanamid Co., on "Agricultural Research in Industry."

Interlandia Folk Dances, 7:30 p.m., Room 105 White.

Saturday, March 2

Varsity wrestling, vs. Rutgers, 7 p.m.; varsity basketball, vs. Rutgers, 9:15 p.m.

Faculty Forum, 8 p.m., The Chapel Lounge. Dr. Joseph Haroutunian, University of Chicago, on "Conversation between Christians and Other Religious Men," sponsored by UCA Faculty Committee.

University Theatre Production of "The Visit," 8 p.m., Schwab.

Sunday, March 3

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Haroutunian, University of Chicago, on "The Fear of God and the Fear of Man."

Artists Series program, "America Dances," 8 p.m., Rec Hall.

Monday, March 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. S. Lewis Land, on "Development of Manpower Resources for Egyptian Industrialization."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. C. D. Hazard, on "Techniques of Ultra High-Speed Stress Analysis as Applied to Stress Waves, Bullet Penetration, and Fracture."

Talk by Felix J. Oinas, Indiana University, 8 p.m., Room 123 Chambers, on "Russian Heroic Epic," sponsored by Russian Area Committee and department of Slavic languages.

Tuesday, March 5

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Five O'Clock Theatre, Little Theatre, Old Main. "The Tree," by James Boydston.

Film, "Talking Sense," 3:55 p.m., Schwab Auditorium. Engineering 11 lecture.

Wednesday, March 6

UCA Faculty Committee series on "The Problem of the Irrational Choice," 8 p.m., The Chapel Lounge. John E. Haag, instructor of English, on the creative arts.

Thursday, March 7

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. John S. Dahler, University of Minnesota.

International Film series, "The Strange Ones," 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk Monday.

Lecture by Andre Philip, French political leader, on "France and the Atlantic Community," 8 p.m., Hillel Auditorium, sponsored by department of political science and the Social Science Research Center.

Graduate Mining Seminar, 4 p.m., Room 304, Mineral Industries.

AAAS meeting

The current issue of the Bulletin of the American Association for the Advancement of Science, devoted largely to news of the 129th annual meeting, points out the work of two areas of Penn State's research.

Dr. Thomas Smyth, Jr., assistant professor of entomology, was singled out for his work with Dr. Graham Hoyle, of the University of Oregon, during the summer. Nate Haseltine, president of the National Association of Science Writers said, "If asked to select the most promising scientific report I'd single out the work of Graham Hoyle . . . and Thomas Smyth, Jr. . . . who together reported finding the biggest muscle fiber ever in the giant muscles of the barnacle, *Balanus nubilis* . . ."

The Bulletin's editor, listing "this year's harvest of new findings" at the Convention, included: "Very young chicks are probably smarter than any other animal of the same age group." This work was done by Dr. J. M. Warren, psychology; Dr. Martin W. Schein, animal behavior; and graduate students C. H. Beck and Marlene Alpert, in a paper titled, "Learning Set Formation in Young Chickens."

Faculty—

(Continued from page one)

faculty member. Of these, 23 were in teaching, 47 in research. The distribution by College was the following, showing teaching aides first, research aides second: Agriculture, 1-10; Business Administration, 0-12; Education, 8-11; Engineering and Architecture, 0-4; Home Economics 2-3; Liberal Arts, 10-7; Physical Education and Athletics, 2-0.

The mean cumulative grade average for the 70 students used on these projects was 3.08.

In addition to aiding the student financially, the program aims to provide him with valuable experience in his specialized field, in close association with a member of the faculty. Only outstanding junior and senior students who have been nominated by a member of the faculty are eligible for the scholarship and only for work under the faculty member on a project related to the faculty member's specialized Summer Term University teaching and/or research responsibilities.

Applications are made by the faculty member. Those interested may obtain more information from Ralph N. Kreckler, director of student aid, 218 Willard, UN 5-6301.

ITEMS OF INTEREST

Awards

ALTMAN, HAROLD, art, winner of award in the Art Directors Club exhibition in Chicago for drawing commissioned by the Container Corp. of America for advertising series, "The Great Ideas of Western Man."

Arts

ALTMAN, HAROLD, art, exhibiting at Albright-Knox Art Gallery, Buffalo; Ohio State University inaugural show for new art gallery; and American Color Print Society national exhibition in Philadelphia.

HELLER, JULES, ZOLLER, E. W., and ZORFICH, G. S., Arts and Architecture, exhibitions of paintings and prints at the Pittsburgh Plan for Art, Pittsburgh.

Lectures and Talks

ADOLF, HELEN, German, "Goethe's Use of the Lyrical Dialogue (Wechsel-Gesang)" Feb. 15 before the Goethe Society Chapter at Baltimore.

BOUCHER, R. V., ag biochem, "Nutritional Crossroads," on panel at annual poultry feeding conference at W. Springfield, Mass.

COSTANZO, ANGELO, English at Wilkes-Barre, "The Importance of English and Literature in the Engineering Curriculum," at St. John's High School Junior Engineering Technical Society. Also, the West Pittston High School Future Teachers of America Club, on the teaching profession.

COYLE, JOHN, business administration, "Some Implications of President Kennedy's Transportation Message," before the Ridgway, Pa., chapter of Delta Nu Alpha.

FISHBURN, HUMMEL, music, "Who Wrote that Tune?" before the students and faculty at Ogontz Campus.

FISCHER, F. B., Continuing Education, "Administration of Special and Summer Conferences," at the seventh biennial workshop clinic of the Eastern Association of College and University Business Officers in New York.

GOLDBERG, M. H., C.C.L.E., "Liberal Studies for Our Time," before the Faculty Association, Bloomsburg State College.

HARRIS, D. B., psychology, "Research in Parent-Child Relations," at the Tri-State Conference on Family Relations at Rutgers University.

JORDAN, JOSEPH, chemistry, "Kinetics and Mechanism of Electrode Reactions," before the Pittsburgh section of the American Chemical Society in a series on electrochemistry.

KNEEBONE, L. R., botany and plant pathology, mushroom research center, "Fundamentals of the Preparation of Composts for Mushroom Culture," at the annual meetings of the Canadian Mushroom Growers Association, in Toronto, Ontario.

KOCHANOWSKY, B. J., talks on angle drilling and open pit operation at the following: Office Cherifien des Phosphates, Rabat, Morocco; Ciment Lafarge, Paris, France; Houllere du Bassin de Lorraine in Merlebach, Moselle, France; and Loebener, Bergmannstag, 1962 Mining Congress in Austria.

LANCASTER, O. E., engineering education,

"Harmonizing Research and Teaching," at Lamar State College of Technology.

— "Improvement of Instruction in Engineering," before the faculty of Auburn University.

MARSH, C. R., electrical engineering, a progress report on study of behavior of light in falling snow, before a meeting of the Night Visibility session of the Highway Research Board in Washington, D. C.

MAUNER, G. L., art and architecture, "Nabi Symbolism," before the College Art Association meeting in Baltimore.

MCCORMICK, B. W., aeronautical engineering, "The Design and Performance of Propellers and Pumps for Underwater Propulsion," before the New London, Conn., section of A.S.M.E.

MCKINLEY, D. H., Business Administration, "1963 Business Activity and the Kennedy Program," before the West Branch Manufacturers Association in Williamsport.

MORGAN, WINONA, child development and family relationships, "An Evaluation of the Montessori Method," before the Delaware Valley Association for Nursery and Kindergarten Education.

MUELLER, E. W., physics, "Field Ion Microscopy in Materials Research" at Duke University at invitation of Army Research Office.

— "Field Ionization," at the RCA David Sarnoff Research Center, Princeton, N. J.

MUELLER, E. W., physics, "Field Ionization," at the RCA-David Sarnoff Research Center, Princeton, N. J., Jan. 22.

— "Field Ion Microscopy in Materials Research," at Duke University colloquium Feb. 8.

NIEBEL, B. W., industrial engineering, "Design and Profitable Production of a Marketable Commodity," before the Susquehanna Valley chapter of the American Institute of Industrial Engineers.

OLIVER, R. T., speech, "The Most Important Business in the World," as commencement address at Lock Haven State College.

POLLARD, E. C., biophysics, "Radiation in Biological Sciences" at the recent international conference in radiation research at Natick Laboratories, U. S. Army Materiel Command.

READ, H. J., metallurgy, "Hydrogen Embrittlement in Metal Finishing," at the annual educational session, Chicago Branch, American Electroplaters' Society, Jan. 26.

ROSE, ARTHUR, chemical engineering, "Sea Water Desalting by Freezing and Other Methods," and on "Preparative Gas Chromatography," before sections of the American Chemical Society at Conning, Binghamton, Schenectady, Potsdam, and Syracuse, N. Y.

SOMMER, L. H., chemistry, "Stereochemistry of Asymmetric Silicon," before the Wilmington, Del., section of the American Chemical Society.

SOMMER, L. H., chemistry, "Stereochemistry of Asymmetric Silicon" before the Pittsburgh section of the American Chemical Society, Feb. 28.

SHOLMAKER, BRANT, English at Ogontz, a course, "Poetry Around the World" in the series, University of the Air, on WFIL-TV, Philadelphia.

STERLING, I. F., patent attorney, "Patents and the Engineer," before the meeting of the American Society of Tool and Manufacturing Engineers Jan. 28.

WEINTRAUB, STANLEY, English, "Bernard Shaw," at the City University of New York.

— "Lawrence of Arabia: Unsung Zionist," at Beth Zion Temple, Philadelphia.

— "G.B.S. and the Enigma of Lawrence of Arabia," Grolier Club, New York.

WILLIAMSON, M. W., Engineering, "Structure of the Industry—Education Relationship and Technological Development," before the Research Parks for Regional Organization for Technological Progress at the University of Wisconsin.

Elected and Appointed

BIRLEY, G. W., Wilkes-Barre, appointed captain of YM-YWCA committee for campaign funds.

DEI, J. P., management training, elected vice chairman, Business and Professional Speaking Interest Group, Speech Assoc. of America.

KNIFFIN, F. W., marketing, appointed chairman, American Marketing Association task force on marketing games.

NEUBERGER, H. A., appointed to the Standing Panel on Manpower and Education in the Atmospheric Sciences, of the Interdepartmental Committee on Atmospheric Sciences of the Federal Council of Science and Technology.

— appointed chairman of Committee on Popular Education of the American Meteorological Society.

RICHARDS, M. D., management, elected secretary-treasurer of the Academy of Management.

SCHAEFER, C. J., industrial education, elected vice president for Trade and Industrial Education of the National Association of Industrial Teacher Educators.

SHUMAN, E. C., engineering research, appointed to two-year term as American Society for Testing Materials representative on the Construction Standards Board of the American Standards Association.

— appointed chairman of a committee to formulate A.S.T.M. procedure for the adoption of the metric system in its standards.

WHERRY, R. H., commerce and management, appointed to the Committee on Curricular Concepts in Risk and Insurance of the American Risk and Insurance Association.

WILLIAMSON, M. A., Engineering, appointed by Gov. Scranton as member of the Highway Professional Personnel Board, for four-year term.

Articles and Papers

BORTREE, A. L., veterinary science, with CARROLL, E. J., and SCHALM, O. W., "Whey Protein Patterns of Milk From Cows with Experimentally Produced Mastitis," in the Journal of Dairy Science, December issue.

BRADEY, J. E., and MOCK, E. J., finance, "The Investment Bankers Association's Contribution to the Nation's Social System," in the January issue of "Commercial and Financial Chronicle."

BROWN, I. V., history, "Miller McKim and

(Continued on page six)

PERSONNEL MATTERS

Dr. Sarvadaman Chowla, professor of mathematics at the University of Colorado and a specialist in number theory, has been appointed research professor of mathematics, effective Sept. 1. Born in London, he received the master of arts degree from Punjab University, India, and his doctorate from Cambridge. He has done work on the theories of the Indian mathematician, Ramanujan. He has held teaching positions at Andhra University and Government College in India and at the University of Kansas. He has been in his present position since 1952.

Stanley G. Gesell, associate professor of entomology extension, has been granted additional leave of absence for the Winter and Fall Terms to continue his graduate studies at Purdue University. He is seeking a master's degree in entomology.

Dr. Howard B. Palmer, head of the department of fuel technology, has been granted a leave for the Spring and Summer Terms to do research in chemical processes in hot gases at Imperial College, London, England.

Dr. John A. Ferguson will be guest scholar at the Brookings Institute Center for Advanced Study during a leave for the Spring Term. He will conduct a survey of ways in which Federal agencies evaluate programs.

Aubrey D. Vose, instructor in agricultural economics extension, has been granted a leave of absence for the Winter and Spring Terms to do graduate work at the Eastern New Mexico University studying for his master of science degree in business administration.

Dr. Alex Black, assistant director of the Agricultural Experiment Station, has been granted a six-month leave, effective Feb. 1 to visit about 25 agricultural experiment stations throughout the country and discuss research administration and related problems.

James A. Rhodes, counselor coordinator for the East Halls area in the Office of the Dean of Men for the past two years, has been named assistant to the dean of men.

Michael P. Hottenstein, former consultant for R.C.A. and teaching associate at Indiana University, has been named assistant professor of management. He is a graduate of Lebanon Valley College and received his master of science degree in business administration from Penn State in 1960. He expects to receive his doctorate from Indiana University in June.

CALENDAR

Friday, March 1

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. H. Pohl, Brooklyn Polytechnic Institute, on "Electronic Properties of Molecular Solids."

University Theatre production of "The Visit," 8 p.m., Schwab Auditorium.

College of Agriculture Research Seminar, 4 p.m., HUB Assembly Room. Robert H. White-Stevens, American Cyanamid Co., on "Agricultural Research in Industry."

Interlandia Folk Dances, 7:30 p.m., Room 105 White.

Saturday, March 2

Varsity wrestling, vs. Rutgers, 7 p.m.; varsity basketball, vs. Rutgers, 9:15 p.m.

Faculty Forum, 8 p.m., The Chapel Lounge. Dr. Joseph Haroutunian, University of Chicago, on "Conversation between Christians and Other Religious Men," sponsored by UCA Faculty Committee.

University Theatre Production of "The Visit," 8 p.m., Schwab.

Sunday, March 3

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Haroutunian, University of Chicago, on "The Fear of God and the Fear of Man."

Artists Series program, "America Dances," 8 p.m., Rec Hall.

Monday, March 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. S. Lewis Land, on "Development of Manpower Resources for Egyptian Industrialization."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. C. D. Hazard, on "Techniques of Ultra High-Speed Stress Analysis as Applied to Stress Waves, Bullet Penetration, and Fracture."

Talk by Felix J. Oinas, Indiana University, 8 p.m., Room 123 Chambers, on "Russian Heroic Epic," sponsored by Russian Area Committee and department of Slavic languages.

Tuesday, March 5

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Five O'Clock Theatre, Little Theatre, Old Main. "The Tree," by James Boydston.

Film, "Talking Sense," 3:55 p.m., Schwab Auditorium. Engineering 11 lecture.

Wednesday, March 6

UCA Faculty Committee series on "The Problem of the Irrational Choice," 8 p.m., The Chapel Lounge. John E. Haag, instructor of English, on the creative arts.

Thursday, March 7

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. John S. Dahler, University of Minnesota.

International Film series, "The Strange Ones," 3, 7, and 9 p.m., HUB assembly room. Tickets at HUB desk Monday.

Lecture by Andre Philip, French political leader, on "France and the Atlantic Community," 8 p.m., Hillel Auditorium, sponsored by department of political science and the Social Science Research Center.

Graduate Mining Seminar, 4 p.m., Room 304, Mineral Industries.

AAAS meeting

The current issue of the Bulletin of the American Association for the Advancement of Science, devoted largely to news of the 129th annual meeting, points out the work of two areas of Penn State's research.

Dr. Thomas Smyth, Jr., assistant professor of entomology, was singled out for his work with Dr. Graham Hoyle, of the University of Oregon, during the summer. Nate Haseltine, president of the National Association of Science Writers said, "If asked to select the most promising scientific report I'd single out the work of Graham Hoyle . . . and Thomas Smyth, Jr., . . . who together reported finding the biggest muscle fiber ever in the giant muscles of the barnacle, *Balanus nubilis* . . ."

The Bulletin's editor, listing "this year's harvest of new findings" at the Convention, included: "Very young chicks are probably smarter than any other animal of the same age group." This work was done by Dr. J. M. Warren, psychology; Dr. Martin W. Schein, animal behavior; and graduate students C. H. Beck and Marlene Alpert, in a paper titled, "Learning Set Formation in Young Chickens."

Faculty—

(Continued from page one)

faculty member. Of these, 23 were in teaching, 47 in research. The distribution by College was the following, showing teaching aides first, research aides second: Agriculture, 1-10; Business Administration, 0-12; Education, 8-11; Engineering and Architecture, 0-4; Home Economics 2-3; Liberal Arts, 10-7; Physical Education and Athletics, 2-0.

The mean cumulative grade average for the 70 students used on these projects was 3.08.

In addition to aiding the student financially, the program aims to provide him with valuable experience in his specialized field, in close association with a member of the faculty. Only outstanding junior and senior students who have been nominated by a member of the faculty are eligible for the scholarship and only for work under the faculty member on a project related to the faculty member's specialized Summer Term University teaching and/or research responsibilities.

Applications are made by the faculty member. Those interested may obtain more information from Ralph N. Kreckler, director of student aid, 218 Willard, UN 5-6301.

Books

"Foundations of Mathematical Logic" is the title of a new graduate textbook by Dr. Haskell B. Curry, Evan Pugh research professor of mathematics. It has just been published as part of the new McGraw-Hill series on higher mathematics. Dr. Curry has given a graduate course in mathematical logic for many years. He is author of four other books: A Theory of Formal Deducibility (1950); Outlines of a Formalist Philosophy of Mathematics (1951); Lessons in Algebraic Logic (1952); and Combinatory Logic, Vol. 1 (1958).

The newest publication of the University Press is titled "Journals of Charles Beatty 1762-1769," and was transcribed and edited by Guy S. Klett, research historian of the Presbyterian Historical Society. The book recreates life in England and America in the 1760's as seen through the eyes of Charles Beatty, a much-traveled Presbyterian clergyman.

Appeal for help

Members of the faculty of sciences at the University of Algiers have made an appeal for help, particularly in obtaining books, in the following letter to Dr. M. A. Williamson, dean of the College of Engineering:

Dear Sir,

Because we need your immediate help, we are taking the liberty of addressing you directly.

Imagine half your laboratories blown up, the premises occupied, mined, searched, ravaged by several waves of armed forces, the main University library completely gutted, all equipment of any value stolen or destroyed, and you will have an idea of what we in this department are up against.

The academic year started mid-November and reconstruction work on the buildings is still in progress. The debris has not yet been cleared up. But our most important worry is for our students who are confronted with an almost total lack of reference books. It is here we hope you will be able to help us.

Ours is a section of the Faculty of Science preparing graduate students in mechanics, thermodynamics, and optics. Our research laboratories are in a sorry state, but nevertheless we plan ahead for work in soil mechanics, optics, electronics, servomechanisms, and cybernetics.

How shall we end a begging letter? PLEASE HELP!

signed

Faculty members desiring to help may address their packages to Mr. K. Malkani, Laboratoire de Physique Generale, Faculte des Sciences, Université d'Alger, Algeria.

FACULTY LUNCHEON CLUB
Dr. S. Lewis Land, head of the department of industrial education, will speak on "Development of Manpower Resources for Egyptian Industrialization," at the Faculty Luncheon Club meeting Monday, March 4, at 12:30 p.m. in HUB dining room "A." Tickets are sold at the HUB desk for the luncheon.

MOVED
The office of Student Affairs Research staff is now in Room 314 Willard Building (UN 5-2578) and of Lester S. Hamel, assistant director of SAR, in Room 312 Willard. The operations staff will be in Room 7, Willard.

OPEN HOUSE
The annual College of Agriculture Open House, which brings students and adults from all sections of Pennsylvania to view the laboratories, greenhouses, livestock barns, and other facilities of the College, will be held this year on Saturday, March 23. Exhibits, demonstrations, and lectures are planned, to acquaint visitors with the instruction and research program in agriculture. Last year 2,000 visitors attended the program including 20 busloads of biology and science students.

LANGUAGE INSTITUTES
The second annual institute for elementary school teachers of French and Spanish will be offered this summer, with a total of 44 teachers from public and private schools. The U. S. Department of Health, Education, and Welfare has provided a \$64,073 grant in support of the Institute, which is organized under provisions of Title VI of the National Defense Education Act of 1958. Dr. Cortland Eyer, professor of Romance languages, is director.

FORD LOAN PROGRAM
Twenty-two graduate students are working for doctorate degrees in engineering aided by the Ford Foundation Predoctoral Forgivable Loan Program. Penn State, which received a \$75,000 grant from the Ford Foundation for the current year, is one of 42 colleges and universities receiving grants.

INTERNATIONAL CONFERENCE
An International Conference on Plant Tissue Culture, sponsored by NATO and other agencies, will be held May 28 to June 1 with delegates expected from 13 countries. Some 48 papers on nutrition, metabolism, pathology, cytology, genetics, and other subjects will be read and discussed. Dr. Philip R. White, distinguished visiting professor of botany, is organizing secretary of the conference.

HOME ECONOMICS
Proposals for alterations and improvements to the Home Economics Building will be received by the General State Authority March 13. The Authority has allocated \$260,000 for construction, which will include installation of new food laboratory facilities, new administrative offices, classrooms, and refinishing of the library.

The Arts

exhibition

An exhibition of contemporary American painting sponsored by the department of art education and on loan to the department from several New York galleries, will continue at the mezzanine gallery of Chambers Building until March 14.

The works on display are representative of the variety of approaches and materials used in contemporary art—oil paint, enamel paint, collage, and assemblage, and bronze and welded sculptures.

Some of the artists represented are Willem de Kooning, Conrad Marca-Relli, Fulton Resnick, Karl Zerbe, Nicolas Carone, and Herbert Forber.

stevens lecture

Hugues Cuénod, noted Swiss tenor who will assist Denis Stevens in his lecture Saturday, March 9, at 8 p.m. in Schwab Auditorium, is known for a wide repertoire of 16th and 17th century song but he is also highly sought after as an oratorio and opera singer, specializing in such varied roles as the Evangelist in Bach's Passions, the Magician in Rimsky-Korsakov's "The Golden Cockerel" and roles in operas by Mozart and Monteverdi. He has visited America on several occasions for recitals and to make recordings, for example on the Westminster label.

artists series

A company of 40 performers will display a panorama of the dance in the United States, from the Turkey Trot to today's favorites in the "America Dances," program Sunday in Recreation Building at 8 p.m.

Tickets, if they remain, are on sale at the HUB desk. Special tickets at reduced rate were placed on sale for youngsters 12 or under.

Ruth St. Denis heads the group and will perform the dance, "The Incense," which she first performed in 1906.

theatre arts

Friedrich Duerrenmatt's controversial modern play, "The Visit," opened Thursday in Schwab Auditorium and will be performed by University Theatre again tonight and Saturday, at 8 p.m.

Warren Smith directs the cast of 35 in the play which starred Alfred Lunt and Lynn Fontanne when it opened on Broadway in 1958.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Penna. Turfgrass Council	\$1,500	Turf grass weed control	J. M. Duich
ibid.	2,000	Soil modification	J. M. Duich
U. S. Public Health Service	20,827	Stimulus generalization	H. S. Hoffman
Geschickter Fund for Medical Research	45,403	Microbial soil ecology	L. E. Casida
Shell Fellowship Committee	(varied)	Chemistry fellowship	Thomas Wartik
ibid.	(varied)	Chemical engineering fellowship	M. R. Fenske
Penna. Dept. of Health	4,000	Engineering services	B. M. Siegenthaler
Continental Can Co. Inc.	500	Grant to mechanical engineering	R. G. Cunninghamham
U. S. Office of Education	7,438	Programmed instruction	C. R. Carpenter
General Radio Co.	430	Equipment gift to electrical engineering	Carl Volz
Pennsylvania Refining Co.	1,000	Petroleum Refining Laboratory	M. R. Fenske
Basic Incorporated	2,000	Ceramic technology fellowship	G. W. Brindley
Rohm and Haas	5,000	Oil additives	M. R. Fenske
Owens-Corning Fiberglass	4,500	Ceramic technology fellowship	Guy Rindone
AZLI-IA Expanded Research Program	3,930	Lead oxide systems	F. A. Hummel
ibid.	3,930	Zinc oxide systems	F. A. Hummel
General Refractories Co.	400	Mineral economics research	D. R. Mitchell
Penna. Natural Gas Men's Assoc.	3,200	Natural gas fellowship	C. D. Stahl
Bethlehem Steel Co.	400	Mineral economics research	D. R. Mitchell
Herbert Grunfeld and Ernest Grunfeld Trust	600	Mineral engineering research	D. R. Mitchell
Rochester and Pittsburgh Coal Co.	2,000	Research in mineral economics	D. R. Mitchell
Stackpole Carbon Co.	3,000	Fellowship in fuel technology	P. L. Walker
Allegheny Ludlum Steel Corp.	800	Cooperative Research in metallurgy	R. W. Lindsay
Bethlehem Steel Co.	800	same	same
Youngstown Sheet and Tube	800	Cooperative research in metallurgy	same
Carpenter Steel Co.	800	same	same
American Smelting and Refining Co.	800	Graduate research in metallurgy	same
Standard Pressed Steel Co.	800	same	same
Atomic Energy Commission	12,000	Intermetallic compounds	E. R. Ryba
U. S. Bureau of State Service	17,190	Sewage effluent purification	H. L. Lovell
U. S. Public Health Service	7,260	Alkaloids and related compounds	Manrice Shamma
U. S. Office of Education	64,073	Summer Institute	Cortland Eyer
U. S. Public Health Service	13,440	E. coli serotypes in animal diseases	P. L. Glantz
Stackpole Carbon Co.	811	Fellowship in metallurgy	W. R. Buessens
The Paudler Co.	1,000	Ceramic technology fellowship	F. A. Hummel
National Science Foundation	2,500	Science Faculty Fellowship	Thomas Wartik
Mead Corporation Foundation	500	Aid to chemical engineering	M. R. Fenske
International Business Machines, Corp.	1,000	Gift to University	R. G. Cunninghamham
E. I. duPont de Nemours	5,000	Research in mechanical engineering	same
ibid.	5,000	Research in chemistry	Thomas Wartik
ibid.	2,225	Teaching assistant awards	same
Westinghouse Electric Corp.	\$750	Equipment for nuclear engineering	N. J. Palladino
Insulating Siding Assoc.	\$900	Moisture in house walls	A. E. Joy
Penna. Coal Research Board	22,500	Anthraxite breaker refuse	Wm. Spackman
U. S. Army Research Office	11,432	Shock waves	H. B. Palmer
Prismo Safety Corp.	1,000	Glass research and technology	Guy Rindone
National Steel Corp.	400	Mineral economics research	D. R. Mitchell
Cooperative GLF Exchange	3,600	Corn breeding research	W. L. Thomas
National Science Foundation	32,100	Petrological components of bituminous coal	Peter Given
Penna. Turfgrass Council	1,500	Nitrogen availability	J. M. Duich
Smith, Kline and French	7,000	Pomology investigations	C. W. Hitz
William H. Rea	75	Southwestern Field Research Lab	L. D. Wissinger
National Science Foundation	12,000	Science education program	W. F. Prokasy
ibid.	60,000	Precision infrared spectroscopy	D. H. Rank
ibid.	117,800	Low temperature chemistry research	J. G. Aston
ibid.	150,000	Operation of computing center	Donald Laird
ibid.	8,400	Science education program	H. J. Read
American Chemical Society	19,200	Aromatic hydrocarbons	J. A. Dixon
Navy Department	246,000	Operation of Ordnance Research Lab	J. C. Johnson
U. S. Air Force	19,924	Planetary boundary layer	A. K. Blackadar
Gulf Research and Development	3,025	Petroleum engineering fellowship	C. D. Stahl
U. S. Steel Foundation	varied	Metallurgy fellowship	R. W. Lindsay
Radio Corp. of America	varied	Fellowship in electronics	A. H. Waynick
U. S. Dept. of the Navy	174,161	Ordnance Research Lab facilities and civil works	J. C. Johnson
Eso Research and Engineering	3,925	Chemical engineering fellowship	M. R. Fenske
National Academy of Sciences	54,998	Identification of aggregate particles in concrete	T. D. Larson
Institute for Certification of Engineering Technicians	3,000	Activation of Institute	M. A. Williamson
Penna. Medical Society	2,500	Aid to Commission of Forensic Medicine	J. H. Ferguson
American Chemical Society	17,850	Alkyl carbonium ion reactions	P. S. Skell

Items of Interest—

(Continued from page five)

- Pennsylvania Abolitionism," in the January issue of "Pennsylvania History."
- KELLER, E. L., and HAMMONDS, THOS., Continuing Education, "Technical, Professional, and Postgraduate Education," in the January issue of The National University Extension Association Spectator.
- DEE, J. P., management training, "The Local Union Steward as a Channel of Communication in the Local Union," at the annual convention of the National Society for the Study of Communication.
- DUBIN, S. S., Continuing Education, "Identifying the Needs of Engineers for Continuing Education" before the 15th Annual College Industry Conference, Georgia Institute of Technology.
- MASTALERZ, J. W., floriculture, "Flowers on Ice—How to do it Right," at a National Symposium on "Living Flowers that Last" at the University of Missouri.
- MEYER, W. E., mechanical engineering, "Fuel Injection and the Engine of the Future," before the Scientific Research Society at Chicago.
- NEILLY, V. E., Continuing Education, "Institute Certifies Engineering Technicians," in the Technical Education News.
- PANOFKY, H. A., meteorology, "Determination of Stress from Wind and Temperature Measurements," in the January issue of the Quarterly Journal of the Meteorological Society.
- PRITHAM, G. H., ag biochem, with Appleton, M. D. and FLUCK, E. R., "Biochemical Studies in Mongolism" in the January issue of the American Journal of Mental Deficiency.
- REISER, MARTIN, DOC at Ogontz, "Pregnancy: A Psychological View," in the Journal of the American Osteopathic Association.
- RICHARDS, M. D., management, "Analysis of Management Audit Systems," at the annual meeting of the Academy of Management in Pittsburgh.
- ROSE, ARTHUR, chemical engineering, "Thin Layer Chromatography for Analysis and Purification of Lecithin," at the National Meeting of the American Chemical Society, in Cincinnati.
- SMITH, W. S., theatre arts, "Stewart Headlam and the Christian Socialists," in Christian Century, Feb. 13 issue.
- SMITH, W. S., theatre arts, review of the book, "The Shaw Alphabet Edition of Androcles and the Lion," in the Jan. 5 issue of The Nation.
- STOUT, R. S., economics, "Ethics in Federal Taxation," in the January issue of Taxes: The Tax Magazine.
- SUN, S. C., mineral preparation, at the 1963 meeting of the American Institute of Mining and Metallurgical Engineers, "Cyclone Classification of Artificial Abrasive Powders," with H. G. PAPACHARALAMBOUS, and "Reclamation of Phosphate from a Florida Washer Slime by Flotation," with F. J. SMITH.
- SUSSMAN, M. R., finance, "A Note on the Impact of Periodic Cash Flow" in the December issue of "Journal of Finance."
- SUSSMAN, M. R., finance, "Improving Earnings Quality and Stock Price Trends," in the January 24 issue of Commercial and Financial Chronicle.
- THEODORSON, G. A., sociology, on leave at the University of Vienna, "Burmese Attitudes Toward Children in the December issue of the Journal of the Burma Research Society.
- VEATCH, JEANNETTE, education, chapters six and seven of "Curriculum for Today's Boys and Girls," edited by R. S. FLEMING, published by Merrill, 1963.
- "Teaching Reading with Many Books," in Christian Science Monitor, Dec. 8 issue.
- "The Kansas Teachers I Met," in the October issue of Bulletin of Kansas Association of Teachers of English.
- contributing author, Chapter six, "Creativity in Teaching," A. V. Miel, editor, Wadsworth, 1962.
- WARREN, J. M., psychology, SCHEIN, M. R., animal behavior, with BACON, H. R., "Non-Spatial Reversal Learning in Chickens,"

in the July-October issue of Animal Behavior.

WEINTRAUB, STANLEY, English, "How History Gets Rewritten: Lawrence of Arabia in the Theatre," in the Winter issue of Drama Survey.

— "Lawrence of Arabia: Essence and Enigma," in Temple University Alumni Review, January issue.

WENTZ, R. E., U.C.A., book reviews in the Journal of Bible and Religion and The Christian Century.

WHITMARSH, D. C., JR., Ordnance Research Laboratory, "Are We Alone," in the January issue of The Torch.

WINTER, A. J., veterinary science, "An Antigenic Analysis of Vibrio Fetus. Further Characterization of the Precipitating Antigens," No. 98, Vol. 24.

YONKER, F. H., physical plant, "Radio Frequency Interferences," in the February issue of Electro-Technology.

DICTATING

Dictating equipment is available to individual faculty and staff members through the Department of Personnel Services-Employee Relations to enable them to familiarize themselves with machine dictation.

The program was initiated in October and first response to the announcement suggested that many faculty members welcomed the opportunity to use a dictating machine. Some found they were useful for many purposes, including making reports, and memorandums as well as recording letters for later transcribing.

The program is not intended to "sell" a particular type of machine but merely to give the user the chance to make up his mind whether a machine would be helpful enough in his operations.

Interested persons should contact R. W. Dombrowsky, UN 5-4041, for more information about the lending program.

faculty BULLETIN

Vol. 50, No. 31 March 1, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

UN 5-7517

W. F. Ackerman, Editor

LOUISE K-KELLY
401 PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

The Arts

chapel choir

Randall Thompson's "The Peaceable Kingdom," will be performed by the University Chapel Choir, directed by Mrs. Willa Taylor and James W. Beach, at the regular Chapel Service Sunday, at 10:55 a.m. in Schwab Auditorium.

A chorus of 104 students will sing the work, replacing the regular sermon. George E. Ceiga, University organist, will play Leo Sowerby's Chorale Prelude on "Rejoice Ye Pure in Heart"; Joseph Clokev's Meditation on "Heinlein"; and Ceiga's own, Gratias Tibi.

"The Peaceable Kingdom" is a sequence of eight choruses and was suggested to the composer by a painting by Edward Hicks (1780-1849), who was known as the preaching Quaker of Pennsylvania. The texts are from the book of Isaiah.

monteverdi

Denis Stevens, distinguished visiting professor of music, will lecture on "Ornamentation and Realization in Monteverdi's Shorter Stage Works." Saturday at 8 p.m. in Schwab Auditorium. He will be assisted by Hugues Cuenod, Swiss tenor, the Alard String Quarter, Dr. Leonard Raver, at the harpsichord, and students Prudence della Cioppa, soprano, and Joseph Krimmel, tenor.

The lecture will feature a performance of Monteverdi's "Combattimento di Tancredi e Clorinda."

(Continued on page three)

Film selected for showing

One of a series of 21 films designed and directed by A. M. Wellington and G. R. Hudson, of the Counseling in Education faculty, will be shown at the 1963 Film Festival of the American Personnel and Guidance Association's annual meeting at which some 5,000 school, college, and industry counselors are expected to be in attendance.

Titled, "Counseling with Parents," the movie to be shown was produced last year, with Delmer P. Duvall, supervisor of motion picture services of UDIS, in charge of the technical aspects of the filming. National Defense Education Act funds made possible the film.

The series is designed for use in professional programs on campuses and in in-service training of teachers and counselors. Some films show basic counseling concepts and skills, others demonstrate group techniques, and still others show counselors interviewing parents or students.

Appearing in the series as counselors are E. L. Trembley, DOC counselor; James W. Kelz, educational services; Barbara Burkhart, assistant residence coordinator; Paul A. DeSena, counselor coordinator; Harold Banks, counselor; John R. Grimm, DOC staff; Daniel R. Leasure, assistant dean of men, Dr. John D. Walmer, University psychiatrist; and T. Sherman Stanford, associate dean of admissions.

The counselor in the film to be shown, which portrays a school counselor's conferences with parents regarding their children's educational programs is Dr. James W. Laughlin, dean of Student Personnel Services at Indiana State College and former director of the guidance department of the College Area schools.

PERSONNEL MATTERS

Dr. Heinz K. Henisch, former lecturer in physics at the University of Reading, England, has been appointed professor of applied physics in the Materials Research Laboratory. Considered an authority on electroluminescence and semi-conductors and semi-insulators, Dr. Henisch will establish a research program in the latter areas. A member of the faculty at Reading since 1948, he served as visiting scientist at Sylvania Electric Products, Bayside, N. Y., in 1955-56. He is a graduate of the University of Reading, which also granted him the Ph.D. in physics.

Dr. Arthur H. Waynick, head of the department of electrical engineering, will be an official U. S. delegate to the second general assembly of the International Year of the Quiet Sun at Rome, March 18-23. He will serve

(Continued on page two)

Education

"The Process of Education in a Mass Society" is the title of an invitational conference in Education sponsored by the University Christian Association tomorrow (Saturday) in The Chapel beginning at 10 a.m.

Principal speakers are Dr. Dugald Arbuckle, professor of education at Boston University, and Dr. Perry D. LeFevre, academic dean and professor of constructive theology at Chicago Theological Seminary. Along with these two speakers, Dr. Robert E. Tschan, assistant dean of the Graduate School, and Dr. Harry K. Hutton, associate professor of education, will take part in a panel discussion on the Conference theme, with Dr. Donald J. Willower, assistant professor of education, as moderator.

Space technology

A 12-week series on "Space Environment Technology" will be presented by the Abington office of Continuing Education Services began this week.

The series has been developed in cooperation with the Mid-Atlantic Chapter of the Institute of Environmental Science and will be attended by professional and technical personnel associated with space activities, manufacturing research, education or testing.

Among the speakers listed are Dr. Francis S. Johnson, head of the Upper Atmosphere and Space Sciences Division, Graduate Research Center of the Southwest, Dallas, Texas; Dr. Wilmont Hess, Goddard Space-Flight Center, N.A.S.A.; and Dr. John T. Hagen, professor of radio astronomy.

Goldwater tonight

Senator Barry Goldwater will discuss current issues in a talk this evening (Friday) in Schwab Auditorium on the University Lecture Series.

His talk, at 8:30 p.m., will be followed by an informal meeting with students and others at a coffee hour in the HUB Lounge.

A member of the U. S. Senate since 1952, Mr. Goldwater's career began in 1949 when he was elected to the Phoenix, Ariz., city council. He serves on the Labor and Public Welfare Committee and the Armed Services Committee of the Senate.

(Continued from page one)

as reporter on ionosphere and space studies for the Geophysics Research Board of the National Academy of Sciences, which is supervising U. S. participation in IQSY through the International Council of Scientific Unions.

Dr. Arthur L. Williams, assistant professor of insurance, has been accepted as one of 20 university faculty members in the U. S. and Canada to take part in Harvard University's 1963 Visiting Professors Case Method Program, June 16 to August 9. Participants will have the opportunity to observe and participate in the processes of the Case Method in teaching business administration.

Dr. J. William Holl, associate professor of mechanical engineering at the University of Nebraska, has been named associate professor of aeronautical engineering. He was a member of the Penn State faculty from 1953 to 1958. He received bachelor and master of science degrees from the University of Illinois and doctor of mechanical engineering from Penn State in 1958. His research has been in the area of fluid mechanics, emphasizing the study of cavitation.

Albert W. Knott, assistant professor of architectural engineering, has been appointed director of the Shelter Research and Study Program, replacing Gifford H. Albright who is now acting head of the department of architectural engineering. The Program was organized three years ago for research and instruction in the problems of protection against radioactive fallout.

Dr. Robert J. Trusk is serving as assistant professor of economics for the Winter Term. He has been assistant professor of economics at Robert College, Istanbul, Turkey, as research project coordinator for the Business Institute at the University of Istanbul, and as lecturer at the University of Maryland's European Division at Vicenza, Italy. His degrees were granted by St. Ambrose College, Columbia University, and University of Illinois.

Monroe H. Rosner, former industry analyst with New York Central Railroad, is instructor in economics for the Winter Term. A graduate of Queens College, New York, Rosner was granted the master of arts degree in international economics by Columbia University. He has served with the economic and management consulting firm of Boni, Watkins, Jaco and Co., of New York, and was a Peace Corps trainee last summer.

Flight service available

AVAILABLE to faculty and staff members is a charter air service, originating from the University Park airport, designed to help solve many of the travel problems encountered on University business trips to various sections of the State or nearby areas, S. H. Campbell, vice president for business, said today.

Flights, by twin-engine or single-engine planes, will be made through arrangements with the airport manager, Charles H. Shilke.

The service will add to the convenience of travel, reduce travel time, improve connections with flights of major air lines, and in some cases reduce overall costs.

Virtually every point in Pennsylvania is accessible with the types of planes available and most areas have airports that can handle them, Campbell says.

Faculty or staff members wishing to make use of the service or obtain more information about it should call Mr. Shilke (EL 5-9571) a day or more

in advance of the proposed flight. He will attempt to schedule all persons travelling to a common destination on the same flight, if the times of departure are compatible, in order to reduce costs to the individual to a minimum.

The cost of this means of transportation is charged to University accounts through the use of the Interdepartmental Transfer (Form G 2.4) properly approved by the appropriate administrative officer and presented at the airport prior to departure.

The University Park airport is maintained to provide instruction for students in the reserve officer programs of the three military services and for research.

Shilke, who was vice president and general manager of Business Aviation, Inc., Sioux Falls, South Dakota, was named airport manager November 1. He was a pilot for three years in the United States Air Force and has had experience in airport operation at Bedford, Pennsylvania, as well as in South Dakota.

Art rental plan begins

Works of art by University artists or from the University collection will be available for rental to students and faculty to hang in their rooms or offices under an unusual plan sponsored by the Undergraduate Student Government Committee on Fine Arts and Cultural Affairs.

A showing of the first group of works will be held Monday, March 11, to Friday, March 15, in the HUB gallery. Other showings are planned for the future.

In the initial showing, the artists represented will be Stuart Frost, Frank Mulvey, George Pappas, Mary Cady Rubinstein, Samuel C. Sabean, Bruce Shobaken, Eleanor Zyglar, and George S. Zoretich. Many prints and drawings from the University Collection will augment the contemporary works.

A small monthly fee is charged for the rental. Members of the Committee will be at the Gallery from 9 a.m. to noon and 2 to 4 p.m. each day to explain the plan and take reservations for works.

Alumni fund

A total of \$121,690.98 has been contributed to the 1963 Alumni Fund as of March 1 by 1,921 contributors. Corresponding figures a year ago were \$113,400.65 by 4,111 contributors.

Pattee hours

In the period between the Winter and Spring Terms, the following hours will be observed:

Thursday - Friday, March 21 - 22—7:50 a.m. to 5 p.m.

Saturday, March 23—7:50 a.m. to noon.

Sunday, March 24—2 p.m. to 6 p.m.

Monday, March 25—7:50 a.m. to 5 p.m.

Tuesday, March 26—regular schedule, 7:50 a.m. to 10 p.m.

Branch libraries will observe schedules to meet their needs.

Movie

"The Earth and Mankind," a film series, will be shown today (Friday) from 1 to 3 p.m. in the HUB Assembly Room, co-sponsored by the Cosmopolitan Club and the International Relations Club.

A future event of the groups is the Cosmopolitan Songfest of Indonesian, Philippine and Mexican folksongs March 30 in the HUB Music Room.

Arts—

(Continued from page one)

music art exhibit

"Music as a Graphic Art" is the title of an exhibition of the visual aspects of musical notation, gathered together by Dr. Jules Heller, dean of the College of Arts and Architecture, and Denis Stevens, distinguished visiting professor of music.

The exhibit will be hung in the HUB art gallery from March 17 through April 8.

Over a thousand years of notation in color and black-and-white are represented in the exhibit, a special feature of which concerns recent developments in notation for quasi-temporaneous music by Stockhausen, Bussotti, Earle Brown, Luigi Nono, and Logothetis.

oriental art

A new offering in art and architectural history will be available to students for the Spring Term. Advisors to students interested in the general area are asked to consider A.A.H. 413, a general course number assigned temporarily to the new course.

Walton J. Lord, instructor in art and architectural history, will teach the course which is meant to serve as a survey of the great periods and monuments of Eastern art, with emphasis on India, China, and Japan. There are no prerequisites, and it is a three-credit, three class period course.

AAUP meeting

The Executive Committee of the local chapter of American Association of University Professors will meet Tuesday, March 12, at 7:30 p.m. in Room 124 Sparks.

All AAUP members are invited to attend the session, which will be devoted to a consideration of amendments to the By-laws which will align the local year with that of the national organization and to increase the local dues to provide more effective service.

The possibility of a "salary continuance" insurance plan, which would continue income for a disabled employee until his retirement will be explored with W. Murray Carr, manager of insurance of the University.

Laboratory

A Dynamics Simulation Laboratory has been established in the mechanical engineering laboratories, jointly supported by the National Science Foundation and the University, to introduce a new concept in the analysis and design of machine elements.

Principal feature of the Laboratory is the use of analog computer simulation to tie together classroom analysis and laboratory observation and measurement.

Arthur D. Brickman and W. H. Park, of the mechanical engineering department, will direct the Laboratory, for which the NSF made a grant of \$24,730.

Reporting grades

Deadline for reporting of grades of student receiving degrees at Winter Commencement Exercises is 9 a.m., Friday, March 22 and for all other students is 18 hours after the final examination of the last class meeting, whichever is later. The final deadline for all grades, including research grades, is 9 p.m., Friday, March 22.

Grade cards should not be sent through campus mail. A night and after-hours depository for grade cards may be found at two entrances to Willard Building: southeast door, ground floor rear, and northeast, first floor front.

Grades are reported to the Registrar's Office, Room 4, Willard, during regular office hours.

Freedom singers

A group of five college-age men and women, known as the "Freedom Singers," will present a program of songs accompanied by guitars Tuesday, March 12, in the HUB ballroom, from 7 to 8:30 p.m.

The songs are those sung or connected with the Freedom Rides, sit-ins, and other activities in the South the past few years. The singers discontinued their college careers for a year to tell the story of the freedom movement as they saw it.

There is no admission charge for the program, which is sponsored by the undergraduate council of the University Christian Association.

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

DONOR	AMOUNT	PURPOSE	IN CHARGE
Diamond Alkali Co.	\$656	Summer fellowship in chemistry	Thomas Wartik
Stackpole Carbon Co.	11,189	Ferrite research	W. R. Buessen
AZILIO Expanded Research Program	4,100	Polymorphs of lead oxide	Rustum Roy
U. S. Army	2,280	Donation of equipment	Rustum Roy
E. I. DuPont de Nemours	4,000	Summer scholarships for high school science and math teachers	P. R. White
Roscoe B. Jackson Memorial Laboratory	6,000	Support work of Dr. White	P. R. White
North Atlantic Treaty Organization	10,000	International conference on plant tissue culture	E. L. Keller
Penna. Dept. of Public Welfare	2,200	Institute for probation work	Howard Palmer
U. of Virginia	4,000	Project Squid	F. A. Joy
Armstrong Cork Co.	7,000	Water Vapor Transmission	R. W. Lindsay
Union Carbide Metals	800	Cooperative program in metallurgy	J. C. Johnson
Navy Bureau of Naval Weapons	22,845	Equipment for Ordnance Lab	J. C. Johnson
ibid.	30,000	Operation of Ordnance Lab	T. H. Patton
U.S.D.A.	9,540	Rural civil defense education and information program	F. G. Brickwedde
National Science Foundation	675,000	Expansion of chemistry research facilities	W. H. Park
ibid.	24,730	Scientific equipment program	Carl Volz
ibid.	21,230	same	Grace Henderson
General Foods Fund, Inc.	varied	Graduate fellowships in home economics	F. W. House
Education in Family Finance	13,490	Program in education in family finance	H. E. Goodwin
Readers Digest Foundation	500	Aid for reporting and research projects by students	M. R. Fenske
Union Carbide Chemicals	3,000	Summer fellowships in chemical engineering	K. Vedam
A.S.T.M.	1,000	Photoelastic properties of materials	R. L. Vierck
Hercules Powder Co.	2,500	Engineering mechanics research and instruction	G. W. Brindley
U. S. Air Force	85,936	Lunar water resources	Rustum Roy
Navy Bureau of Naval Weapons	318,000	Operation of Ordnance Lab	J. C. Johnson

CALENDAR

Friday, March 8

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Erwin Tessman, professor of biology, department of biological sciences, Purdue University, on "Mutagenesis."

University Lecture Series, 8:30 p.m., Schwab Auditorium. Senator Barry Goldwater, Arizona Republican.

Agriculture series on research, 4 p.m., HUB Assembly Room. Panel discussion on "Individualism with Cooperation in University Research" with Ernest L. Bergman, John S. Boyle, and Robert F. Gentry as panelists, and Edward G. Buss, as moderator.

Mineral Industries Colloquium, 3:45 p.m., Room 26 Mineral Sciences. Lauro A. Yzaguirre, distinguished lecturer for the American Association of Petroleum Geologists, on "Petroleos Mexicanos—Exploration Program in Northeast Mexico."

Movie, "The Earth and Mankind," 1 p.m., HUB Assembly Room, co-sponsored by Cosmopolitan Club and the International Relations Club.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Saturday, March 9

Conference on "The Process of Education in a Mass Society," 10 a.m., The Chapel Lounge. Dr. Dugald Arbuckle, Boston University, and Dr. Perry D. LeFevre, Chicago Theological Seminary, principal speakers.

Lecture by Denis Stevens, distinguished visiting professor of music, 8 p.m., Schwab Auditorium, with Hugues Cuenod, Swiss tenor, Dr. Leonard Raver, the Alard Quartet, Prudence della Cioppa, and Joseph Krimmel.

SUNDAY, MARCH 10

Hillel Foundation Cultural Art Film, "Yiddle with His Fiddle," with Molly Picon, in English.

University Chapel Service, 10:55 a.m., Schwab Auditorium. The Chapel Choir, directed by Mrs. Willa Taylor and James W. Beach, presenting Randall Thompson's "The Peaceable Kingdom."

Monday, March 11

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Mary L. Willard, professor of chemistry, on "The Faculty Luncheon Club—Now and Then."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammend. Dr. Nuredin N. Mohsenin, associate professor of agricultural engineering, on "Mechanical Properties of Agricultural Products."

Genetics and Plant Breeding Seminar, 4 p.m., Room 111 Tyson. Dr. Henrik Kascar, department of animal genetics, Edinburgh, Scotland, on "Genetic Control of Phenotype."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics. Pepita G. Jimenez and Dr. Joseph H. Britton, on "Reliability of Mother's Retrospective Reports about Their Children."

Tuesday, March 12

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. John De Barber, on "Ionospheric Diffraction on High-Frequency Radio Waves."

American Society for Metals, Penn State Chapter, open meeting, 7:30 p.m., Mineral Industries Auditorium. Joseph W. Wilton, Wallingford Steel Co., on "Surface Reactions of Stainless Steel."

Meeting of A.A.U.P. executive committee open to association members, 7:30 p.m., Room 124 Sparks.

English Colloquium, 7:30 p.m., Nittany Lion Inn. Alan Trachtenberg on Herman Melville.

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Rabbi N. T. Goldberg, on "Image of a Jew."

Wednesday, March 13

American Chemical Society meeting, 8 p.m., Room 112 Buckhout. Dr. A. J. Mabis, research division, Pröctor and Gamble, on "The Structure of Liquid Crystals."

Thursday, March 14

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Gerhard L. Closs, University of Chicago.

International Film showing, "Ditte, Child of Man," HUB assembly room, 3, 7, and 9 p.m., tickets at HUB desk Monday.

FACULTY LUNCHEON CLUB

Dr. Mary L. Willard, professor of chemistry, will address the regular Faculty Luncheon Club meeting Monday, March 11, at 12:30 p.m. in HUB dining room "A." Tickets for lunch are on sale at HUB desk. She will speak on "Faculty Luncheon Club—Now and Then."

COMPUTATION CENTER

The National Science Foundation has granted \$150,000 to aid in the operation of the Computation Center. In the last six months of 1962, the 7074 computer at the Center handled 25,941 individual jobs for faculty and students, for a total of 69 different departments. The greatest number of hours use was by the physics department, 462 hours.

ENGINES

Two six-cylinder engines have been donated to the department of mechanical engineering for use in student laboratories by the Ford Motor Co. under the company policy of furnishing automotive equipment to qualified educational institutions.

HOME DESIGN

A pre-fabricated home designed by Robert J. Napier, assistant professor of architecture, will be displayed Monday, March 11, from 9 a.m. to noon in the Architectural Gallery, 307 Sackett. The home is a submission in the current Kingsberry Home Design Competition.

TELEPHONE

A suggestion is made by Wilbur F. Diehl, University supervisor of mail and telephone services, that persons calling from off-campus make use of the directory information, if they don't know the exact number to call, found on page 56 of the Bell Telephone Co. directory for the Bellefonte-State College area. Many persons are needlessly calling the University information operator, he finds, when the information they need is listed in the directory.

faculty BULLETIN

Vol. 50, No. 32 March 8, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

S BROOKS McLANE
OSMOND LAB

86

faculty BULLETIN

**A Weekly Publication
The Pennsylvania
State University**

Ag open house

Upwards of 2,000 young people and adults are expected to attend the Open House program of the College of Agriculture March 23.

Lectures, demonstrations, and exhibits will be featured, beginning at 9:30 a.m. and continuing until 4:30 p.m. Featured topics are the biological sciences, animal and plant sciences, agricultural engineering and physical sciences, agricultural business, education, and extension, and counseling for careers in agriculture.

The program is intended to acquaint young people with developments in agricultural fields.

All agriculture buildings will have exhibits and guides will escort visitors to areas of interest.

Institute

"A Society in Flux" is the theme of the 10th annual School Board Institute which will attract more than 300 school officials from 25 counties next Tuesday and Wednesday.

The Pennsylvania School Study Council is sponsor of the Institute in cooperation with the College of Education, the Pennsylvania State School Directors Association, and the Centre County School Directors Association.

Dr. Donald N. Michael, director of planning and programs at the Peace Research Institute, Washington, D.C., will serve as the guest speaker at the annual banquet on the subject, "Cybernation: The Silent Conquest."

Dr. Walter J. DeLacy, professor of education, is the executive secretary of the School Study Council.

Pavilion theatre opens May 9

"The Chinese Wall," by Max Frisch, with John O'Shaughnessy as director, will be the opening theatre production at the new Pavilion Theatre, beginning May 9.

The new theatre will seat 318 for full arena productions and 276 with three-quarter arena staging. Its use for University Theatre productions and the professional summer theatre program will give the department of theatre arts a four-season program of continuous theatre, Dr. Walter H. Walters, department head, points out.

The Pavilion, built in 1911 and called the Stock Judging Pavilion for many years, is located south of Borland Laboratory (Dairy and Creamery) near the corner of Curtin and Shortlidge Roads.

Conversion of the facility into an arena-type theatre required excavation of the central part and construction of rooms for classes, particularly in the dance, in the area under the stage. Areas under the balcony are to be used for work rooms and dressing rooms.

The entrance to the east is an addition in the form of a pavilion in the style of those built in many communities for band concerts, except that it is enclosed and serves as a foyer as well as a general entrance. The west entrance is for movement of loading and storing scenery and other stage properties.

John O'Shaughnessy, who is to direct the first play and will be visiting on the campus, has directed many successful plays and directs currently at the Arena Stage in Washington, D. C. Among the Broadway plays he has directed are "Command Decision"; "A Phoenix Too Frequent"; "The Last Dance"; "Jenny Kiss'd Me"; and "Sleepy Hollow".

"The Chinese Wall," by Swiss architect and writer Max Frisch, is a farce on the contemporary scene but like many such plays is highly symbolic.

Carbon book

The second volume of the proceedings of the fifth conference on Carbon, which met at the University June 19-23, 1961, is now in preparation as a follow-up of Vol. 1 published by Pergamon Press recently.

Dr. Philip L. Walker, Jr., chairman of the division of mineral technology, was a member of the Executive Committee of the American Carbon Committee which co-sponsored the conference with the University. The conference brought together scientists from all over the world.

Dr. L. G. Austin, associate professor of fuel technology, is a member of the program committee for the Sixth Conference, which will be held in Pittsburgh in June.

Admission offered

A total of 5,385 secondary students have been offered admission for the Fall Term, chosen from 23,551 who requested applications.

The total includes 3,365 men and 1,620 women, and of these 5,110 applied for baccalaureate degree programs and 275 for associate degree work.

About 500 new students will be admitted for the Summer Term, and to date 223 have been offered admission for that term.

Dr. R. G. Bernreuter, dean of admissions, explains that experience in past years indicates that fewer than 5,000 of the 5,385 already offered admission will accept the offer. He expects that additional offers of admission will be made to other applicants as decisions are received on the offers already made.

For the Spring Term opening March 28, 130 students have been accepted and 42 offers are still outstanding.

Commencement

About 425 undergraduates and 100 graduate students are candidates for degrees to be granted at Winter Term Commencement Exercises Saturday, March 23, at 10:30 a.m. in Recreation Building.

There will be no formal processional of candidates but faculty members who wish may take part in the faculty processional. They will gather under the south balcony at 10:15 a.m.

Faculty members who do not intend to be part of the processional but who wish to attend will find a section of seats set aside for them and their wives.

A total of 24 seniors will be graduated with honors, including one with highest distinction, 12 with high distinction, and 11 with distinction.

Fifteen seniors will receive commissions in the Army, Navy, or Air Force, having completed the R.O.T.C. program.

SENATE MINUTES

Meeting of March 5, 1963

The University Senate met at 3:55 p.m. on Tuesday, March 5, 1963 in Room 121 Sparks Building with Vice President John R. Rackley presiding. The minutes of the January 8, 1963 meeting were approved as printed in the Faculty Bulletin for January 18, 1963. One hundred thirty-four senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Joseph Jordan (L. G. Goodman), E. L. Keller (T. S. Goas), R. W. Lindsay (W. R. Bitler), R. C. Maloney (H. J. O'Brien), R. C. Miller (W. L. Henning), H. B. Palmer (P. H. Given), F. W. Peikert (R. A. Keppeler), W. H. Powers (K. V. Manning), E. R. Queer (E. C. Shuman), H. J. Reed (J. H. Hoke), W. R. Spieth (W. E. Weiland), W. R. Weisman (G. L. Maurer), and G. F. Wislicenus (E. J. Rodgers).

An excerpt was read from the Board of Trustees meeting of January 26, 1963, approving the establishment of a new Associate Degree curriculum in Forest Technology, effective beginning with the Fall Term, 1963.

The following letter from H. J. O'Brien was read:

We have been informed by the University Registrar that grade reports for the Winter Term will not be available until after registration for the Spring Term begins. This, of course, means that students finishing the third, sixth, ninth, and twelfth terms and who are subject to drop action under Rule P-12, might not learn that they have been dropped from the University until they arrive in Recreation Building to complete their registration.

Since the University stands to lose so little by way of academic standards and so much by way of good will, I suggest that the University Senate at its meeting on March 5, 1963, consider suspending action under Regulation P-12 for the Winter Term, 1963.

The Chairman stated this would be considered under new business.

Reports of Standing Committees

R. B. Saylor, Vice Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He stated that the report was in two parts. Part one contained recommendations to adopt proposals listed under Items 1A and 1B, and part two contained a report and recommendations regarding University Honors Programs and Courses. He moved adoption of the proposals listed under Items 1A and 1B. The motion was seconded. T. F. Magner asked for a clarification of the language requirement as stated under Item 1B2, No. 187. (Premedical-Medical Curriculum). J. A. Dixon explained the level of attainment necessary in

foreign languages in this proposed curriculum. The motion was passed.

Mr. Saylor then presented the second part of the report on REPORT AND RECOMMENDATIONS REGARDING UNIVERSITY HONORS PROGRAMS AND COURSES. He stated that the subcommittee had found a wide discrepancy as to policy, standards, etc. in the Colleges having Honors Programs and changes in the regulations were being recommended. The recommendations of the subcommittee, as endorsed by the Committee, are found on pages 4 and 5 of the report. The changes proposed are underlined. The recommendations are as follows:

1. The "Minimum Administrative Requirements for the University Honors Program" as adopted by the Senate on May 7, 1959 and included in Section II of this report should be retained without change.

2. The "Minimum Academic Requirements for the University Honors Program" as adopted by the Senate on May 7, 1959 (and modified slightly on June 2, 1960 and April 6, 1961) and included also in Section II of this report should be retained with certain modifications and additions. The Minimum Academic Requirements which are being proposed for adoption by the Senate are:

(1) In order to be eligible for participation in an Honors program a student must have at least fourth term standing and have attained either a cumulative grade point average of at least 3.00 or a 4.00 average in courses in his academic major. Participation in the Honors Program is at the invitation of the Departmental Honors Committee. (VERBAL CHANGE FOR CLARITY)

(2) An Honors student must maintain a cumulative grade point average of 2.50 in order to remain in the Honors program. (NO CHANGE)

(3) In order to qualify for an Honors diploma the student must complete at least twelve (12) credits of Honors course work, which (12) credits are to be part of, rather than in addition to, the minimum requirements for graduation.

(4) Of the twelve (12) credits of Honors course work not fewer than three (3) or more than six (6) are to be devoted to an undergraduate Honors thesis. Such a thesis should be a scholarly written report and may be based upon a project.

(5) Each student must take and pass a comprehensive examination administered by the departmental Honors committee. (NO CHANGE)

3. In addition to the administrative and academic requirements listed above the committee recommends to Departments offering Honors programs that serious consideration be given to the following:

(1) The minimum requirement of

twelve (12) credits ought to be increased by nine (9) additional credits of regular, advanced-level course work in the same or related areas, i.e., courses at the 400 and 500 levels or Honors courses in other areas.

(2) For the Honors courses to be truly effective, the teachers selected should have a genuine commitment to Honors work. It is desirable that these teachers be well qualified with respect to such qualities as: ability to analyze and synthesize, scholarly potential and accomplishment, intellectual leadership, and a deep feeling for student development.

(3) Further to ensure success of each Honors program an effective advisory system should be devised and established. As a minimum such an advisory system should provide each Honors student with a committed Honors adviser who would meet with the student at least twice per term. At these meetings the advising and counseling would be concerned with such matters as a student's entire program of studies, his general academic progress, his use of the University's resources to increase the value of the total program to him, and the relation of his activities in the University to his academic and vocational objectives.

(4) In the thesis work the student must have regular individual instruction and consultation with a thesis adviser. Two of the most important incentives for the student to undertake Honors work are the opportunity to have contact in depth with one or more faculty members and to feel that he is a part of the department's research and scholarly effort.

4. Finally, in order to protect the integrity of approved Honors programs, the Senate is asked to accept the proposal that "Within three years all courses designated as Honors Courses must be part of a formally approved Honors Program. Otherwise they should no longer be designated or described as Honors Courses or they should be dropped."

Mr. Saylor stated a sentence had been missed in item 2 (3) and requested the members of the Senate to add the following sentence:

Honors courses are to be designed specifically for, and open only to, students officially enrolled in an Honors program.

He then moved adoption of the recommendations with the addition to item 2 (3). The motion was seconded. There was general discussion on these recommendations by Messrs. Bartoo, Saylor, Whisler, Frink, Mentzer, Rackley, Williamson, Dixon, Thompson, and Lancaster. Mr. Thompson moved that the added sentence be amended by de-

(Continued on page four)

ITEMS OF INTEREST

Articles and Papers

- ASPATURIAN, V. V., political science, "Dialectics and Duplicity in Soviet Diplomacy" in the January issue of the Journal of International Affairs.
- BRITTON, J. H., child development and family relationships, "Dimensions of Adjustment of Older Adults," in the Journal of Gerontology, January issue.
- DODDS, MARY L., foods and nutrition, with Margaret E. Pontzer, "Use of Government Donated Foods in a Rural Community," in the February issue of the Journal of the American Dietetic Association.
- ENGASS, ROBERT, art and architectural history, "Variations on a Theme by Guido Reni," in the current issue of Art Quarterly.
- "The Church Triumphant in Late Seicento Roman Art: Manifestations and Motivations" at Oberlin College.
- FAGAN, E. R., secondary education, with A. E. Dunn, "Summer is for Learning" in the February issue of The Bulletin of the National Association of Secondary-School Principals."
- FREUND, E. H., philosophy, translation of book, "Karl Barth, The Great Promise," from the German, published by Philosophical Library.
- SHULTIS, SAM, civil engineering, "Effect of a River Constriction," before the Federal Inter-Agency Sedimentation Conference at Jackson, Miss., Feb. 27.

Lectures and Talks

- CARZO, ROCCO, JR., management, "Decision Making in Production Management," at Wake Forest Management Development Conference.
- CATALDO, J. W., art education, "The Role of the Craftsman in Education in a Technocracy," before the Williamsport chapter of the Pennsylvania Guild of Craftsmen.
- CHRISTY, LYNN, English, "College Training vs. a College Education," at the DuBois Campus student assembly, Feb. 28.
- CREECH, ROY, horticulture, "Genetic Determination of Carbohydrate Types and Quantity in Maize Endosperm," at the Maize Genetics Conference, University of Illinois, March 9.
- DAWSON, R. E., Scranton, "Penn State Development Program," before the Dunmore Rotary Club.
- "Higher Education in Pennsylvania," before the Honesdale Knights of Columbus.
- JOHNSTONE, H. W., JR., philosophy, "The Categorical-Centric Predicament" at University of North Carolina on series of talks in memory of Everett W. Hall.
- interview in movie on his book, Philosophy and Argument, at University of North Carolina.
- KOLFSAR, JOHN, engineering at Wilkes-Barre, on "Education Today" at the American-Russian Club of Swoyersville.
- MISEROLF, H. T., English, "A Measure of Music," at the DuBois Campus student Assembly, Feb. 28.
- YEATON, KELLY, theatre arts, member of panel on "Implications of Research in Drama and Theatre," at the Speech Association of Eastern States, April 5.

Teller to speak April 1

Dr. Edward Teller, internationally known for his work in nuclear physics, molecular physics, quantum theory and other areas of scientific research and also a controversial figure in the subject of the use of nuclear energy, will speak Monday, April 1, in Schwab Auditorium.

He will talk on "The Atlantic Community and Nuclear Arms," sponsored by the Graduate Lecture Series and the College of Chemistry and Physics.

Now professor of physics-at-large, University of California, and associate director, Lawrence Radiation Laboratory, Dr. Teller is Hungarian-born, was educated at Karlsruhe Technical Institute in Germany, University of Munich, and University of Leipzig. He was a research associate at Leipzig, 1929-31, and at Goettingen, 1931-33. In 1934 he was a Rockefeller Fellow with Niels Bohr at the University of Copenhagen and the next year was lecturer at the University of London. He came to this country to become professor of physics at George Washington University, from 1935-41; Columbia University 1941-42; and was physicist with the Manhattan Engineer District, 1942-46, working at the University of Chicago, 1942-43, and Los Alamos Laboratory.

Since the war, he has been professor of physics at University of Chicago, 1946-52; Consultant to the University of California Radiation Laboratory at Livermore, 1952-53; and professor of physics since 1953. He was director of the Lawrence Radiation Laboratory 1958-1960.

A frequent spokesman for continued nuclear testing and an opponent of disarmament of nuclear weapons, Dr. Teller has at the same time had an interest in research for Project Plowshare, for the peaceful uses of nuclear energy.

Exhibit

Luther F. Kepler, Jr., supervisor of television production in the University Division of Instructional Services, and his sister, Ann Kepler Fisher, will have 25 art works on exhibit at the State Museum Building in Harrisburg March 15-April 12.

Subject of the exhibit is the Old Order Amish people of Big Valley, near Lewistown, and the paintings and sketches were made over a ten-year period by Kepler and Mrs. Fisher, who is well known for her work in this area.

Included in the exhibit, which is sponsored by the Pennsylvania Historical and Museum Commission are pastels, oils, and pencil sketches. The Keplers have lived in the Big Valley area for many years and are familiar with the Amish customs.

ST. PATRICK'S DAY

The HUB Terrace Room will feature a St. Patrick's Day Candlelight Dinner Sunday, March 17, from 5 to 6:45 p.m. There will be appropriate decorations.

WOMEN'S RECREATION

The women's recreation program for faculty members and wives of faculty members concluded yesterday (Thursday) at White Building and will be resumed Thursday, March 28. Bowling will be held Tuesdays and Thursdays, from 2 to 3 p.m.; swimming Tuesdays and Thursday, 3 to 4 p.m.

MUSIC EXHIBITION

The exhibition titled, "Music as a Graphic Art," will be opened March 17 in the HUB Gallery and continue on display until April 8. The unique exhibit was assembled by Dr. Jules Heller, dean of the College of Arts and Architecture, and Denis Stevens, distinguished visiting professor of music.

ALUMNI FUND

Total contributions to the 1963 Alumni Fund through March 8 are \$125,492.75, received from 2,136 contributors.

PARKING RESTRICTIONS

Restrictions on parking in certain areas on the University campus during the winter months will be lifted April 1, W. C. Pelton, director of security, said today.

Initiated to permit access of snow removal equipment to the areas during the hours of 2 a.m. to 6 a.m., the restrictions applied to areas 1, 11, 14, 23, 30, 38, 40, 41, 46, 50, 61, 62, and 70, all faculty-staff areas, and 80, student parking area. The usual regulations regarding parking in the areas will be observed after April 1.

ENGINEERING

Total enrollment in engineering nationally increased by 1.6 per cent over 1961, from 237,705 to 241,613 registered in 166 institutions having one or more engineering curricula accredited by the E.C.P.D. Doctoral level enrollments increased 17.3 per cent and master's by 8.6 per cent.

BONDS SOLD

New bonds, totalling \$11 million, have been sold by the University to finance a major expansion of student residence facilities. First Boston Corporation underwrote the issue, which will bear an annual interest cost of 3.41 per cent. Proceeds of the sale will finance additional residence halls for 1100 students and dining hall and food service facilities for 2,100, to be ready by the fall of 1965.

CALENDAR

Friday, March 15

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Rein Kilson, on "Structure of Bacteriophage."

College of Agriculture Research Seminar, 4 p.m., HUB Assembly Room. Panel discussion on "Teaching and Research," with R. D. Schein, C. O. Claggett, and Stuart Patton, with E. B. Hale as moderator.

Saturday, March 16

Winter Term classes end, 12:25 p.m.

Monday, March 18

Final examination period begins, ends March 20.

Tuesday, March 19

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Hunter Yarborough, special staff geologist, Humble Oil and Refining Co., on "The Geologic Framework of the Gulf Basin."

Saturday, March 23

Winter Term Commencement, 10:30 a.m., Recreation Building.

The Arts

Two programs remain in the 1962-63 Artists Series. The Pittsburgh Symphony Orchestra, conducted by William Steinberg, will make its annual appearance Sunday, April 7, in Recreation Building.

The final program of the series will be given Thursday, April 25, and Friday, April 26, by Joan Baez, folk singer, in Schwab Auditorium.

Other programs in The Arts include a concert by Dr. Leonard Raver, Chapel organist, Sunday, April 7, at 4 p.m. in Schwab, when he will play the harpsichord; the Easter program by the Chapel Choir on April 14, at regular Chapel services; the Alard String Quartet, Tuesday, April 16; and the Blue Band Concert April 21.

SENATE —

(Continued from page two)

leting the words "and open only to." The motion was seconded. C. B. Broderick moved that the matter be tabled and referred back to the Senate Committee on Courses of Study. The motion was seconded and passed. The complete report is on file in the office of the secretary.

New Business

H. J. O'Brien moved that Regulation P-12 of the "Senate Policies and Rules for Undergraduate Students" be suspended for the Winter Term, 1963, only. The motion was seconded. R. T. Oliver, Parliamentarian, ruled this motion would require unanimous consent of the Senate since it had not been presented in writing two weeks before the meeting. Since unanimous consent was not given Mr. O'Brien withdrew the motion. He then moved that when students who have been dropped are stopped at Registration they be informed that they may apply for immediate reinstatement through their dean; and that the Academic Standards Committee be available so that the reinstatements can be processed immediately. The motion was seconded. After discussion by Messrs. Whisler, Hayes, Gorlow, Kniffin, Perez, Dickerson, and Miss Houghton the motion was defeated 42 to 90, by a show of hands.

The next regular meeting of the Senate will be on April 2, 1963; the agenda will be distributed on March 19, 1963.

The meeting adjourned at 4:52 p.m.

Robert G. Bernreuter
Secretary

Books

E. Scott Roscoe, professor emeritus of industrial engineering, is author of the third edition of the book, "Organization for Production," published by Richard D. Irwin, Inc. It is a survey of industrial management practices, with emphasis on manufacturing, intended as an introduction to industrial engineering.

PERSONNEL MATTERS

Dr. Robert Enggass, associate professor of history of art and architecture, has been named the Fulbright Research Scholar to Rome for the 1963-64 academic year. He will do research in Neapolitan Baroque painting and will be associated with the University of Rome.

Arnold Addison, personnel director of the Ordnance Research Laboratory, and Henry Yeagley, director of the department of maintenance and utilities, along with Thomas B. Derr, former staff member of the Ordnance Lab, have been designated to receive an award from the Institute of Electrical and Electronic Engineers for their study, "A Method of Performance Evaluation for Engineers and Scientists." The presentation of the award will be made March 27 at the International Convention of the I.E.E.E. in New York.

Dr. Dale B. Harris, head of the department of psychology, will be visiting lecturer in psychology at Carleton University, Ottawa, March 18-20. He will lecture before a psychology colloquium, the Ottawa Psychology Association, the University's psychology club, and the Ottawa Mental Health Clinic.

Errata

Last week's list of Grants, Contracts, and Agreements incorrectly aligned the names of the persons in charge of various projects with other data. All names from P. R. White on should be dropped one line, the grant from E. I. DuPont for summer scholarships being in the charge of various persons. The U. S. Air Force grant for lunar water resources is in the charge of Drs. G. W. Brindley and Rustum Roy.

faculty BULLETIN

Vol. 50, No. 33 March 15, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Dean's list

Nearly nine per cent of the baccalaureate students at all campuses made the dean's list for the Fall Term, data supplied by the office of Student Affairs indicates.

Of the 1,700 associate degree candidates, nearly seven per cent made their respective dean's list.

The summary of data on baccalaureate students by College is as follows:

College	On Dean's List	
Agriculture	137	9.88
Business Administration	100	5.10
Chem-Physics	113	9.17
Education	381	11.29
Engineering-Arch.	213	7.21
Home Economics	63	9.35
Liberal Arts	392	11.72
Mineral Industries	47	9.89
Phys. Ed.	18	6.08
DGC	24	2.79
Total	1488	8.98

Data summarized by Class and Sex is as follows:

Class	Men	Women	Total	%
Freshmen	141	111	252	5.64
Sophomores	194	197	391	8.09
Juniors	208	223	431	10.68
Seniors	214	200	414	13.15

Poetry on t.v.

Joseph L. Grucci, director of the Poetry Workshop and associate professor of English, will appear on the Pittsburgh educational television station, WQED, Channel 13, on March 28. He will read from his latest book, "The Invented Will" and will be questioned by a panel of poetry critics.

The same program will be rebroadcast March 31, via tape.

Urey to give Priestley lectures

Dr. Harold C. Urey, Nobel Prize winner and professor of chemistry at the University of California, will deliver the 37th annual Priestley Lecture Series April 15-19 on the subject, "Some Cosmo-Chemical Problems."

Widely known for his research leading to the production of heavy water and U235 for the atomic bomb, Dr. Urey was awarded the Nobel Prize in 1934. He has also been honored with the Willard Gibbs Medal of the A.C.S.

in 1934; the Davy Medal of the Royal Society of London, 1910; the Franklin Medal of the Franklin Institute, 1943; the distinguished service award of Phi Beta Kappa, 1950; and the Priestley Award, 1955.

The late Dr. Wheeler P. Davy inaugurated the Priestley Series, which is presented by Mu chapter of Phi Lambda Upsilon, in cooperation with the departments of chemistry and chemical engineering and related departments in the College of Agriculture and Mineral Industries.

Research grants

Applications for grants-in-aid for research from the Central Fund for Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. E. F. Osborn, Vice President for Research.

Applications should be filed with the Dean of the College, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$300. In a few instances grants are made for larger sums to meet special needs.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

Alumni college

The 12th Alumni College will be held April 4-6 at University Park on the theme, "United States Foreign Economic Policy and the Common Market."

Co-sponsored by the Alumni Association and the Center for Continuing Liberal Education, the College offers a series of informal study-discussion courses for alumni. It is partially financed by a grant from the Fund for Adult Education.

Sessions will be held in the Nittany Lion Inn, the opening program being scheduled for Thursday, April 4, at 7:30 p.m. with an address by Clarence B. Randall, director and former president of Inland Steel Co. and chairman of the Commission on Foreign Economic Policy.

Sessions on Friday and Saturday will hear addresses by Deane R. Hinton, chief of the Commodity Programming Division, Bureau of Economic Affairs, Department of State; William B. Dale, U. S. executive director, International Monetary Fund; Leonard Weiss, director of the Office of International Trade, Department of State; and J. Warren Nystrom, director and partner in Allen, Murden, and Nystrom, international relations consultants.

Religious drama

An unusual program of dramatic presentations, titled "Between Me and Thee," will be given on four occasions during the weekend of March 29-31 in various residence halls on campus, sponsored by the religious affairs program in the office of the coordinator of religious affairs.

Donald L. Campbell, Jr., currently studying for a bachelor of divinity degree at Union Theological Seminary, presents excerpts from the writings of such authors as Albert Camus, John Steinbeck, C. S. Lewis, and others, with a view to being provocative. After the presentations, the audience is invited to discuss the implications of the problems revealed by the authors.

Faculty members are invited to the presentations, which will be given at the following times and places: Friday, March 29, Warnock Lounge, North Halls, 6 p.m.; Saturday, March 30, Pollock Lounge, 1:30 p.m.; Simmons Lounge, 6 p.m.; Sunday, March 31, Waring Lounge, West Halls, 1:30 p.m.

PARKING

When University faculty and staff members find the parking area to which they are regularly assigned filled, they are privileged to use a legal parking space in a nearby area, but they must notify the Campus Patrol, UN 5-5458. Failure to do so may result in a parking ticket and subsequent fine.

Student attitude survey

(This is the first in a series of articles on attitudes of Penn State students on a variety of topics related to education and to Penn State in particular. Analysis of all the data will be completed and a detailed report made later this year.)

IN the Spring of 1962 a questionnaire was administered by the Office of Student Affairs Research to more than a thousand students, aimed at learning something about the general attitudes of a representative sampling of all undergraduate students on subjects in seven areas of interest.

The areas were: (1) Education; (2) Penn State; (3) Administration Rules and Regulations; (4) Faculty and Advisors; (5) Courses; (6) Extracurricular activities; and (7) Library and Physical Facilities.

The Student Attitude Survey (SAS) developed from a request by a number of University administrators for a quantitative measurement of student opinion on certain subjects to aid them in decision-making. In January, 1961, the Student Research Advisory Committee (representatives of the offices of Dean of Men, Dean of Women, International Student Affairs, Division of Counseling, and Registrar and Admissions) recommended that the survey be undertaken.

Early in 1961, Dr. Henry W. Sams, head of the English Department, asked freshman students to write a theme on the subject, "What is a Penn State Student?" (See Faculty Bulletin, May 5, 1961). Also, during the summer of 1961 an open-ended survey of 336 students was made by Student Affairs Research. The themes and the survey suggested topics and questions for a pilot survey or pre-test which was administered to about 100 students during the 1961-62 winter. The final SAS questionnaire was given in April, 1962.

Administration of Survey

A random selection was made of 1,172 students by machine sorting of control cards and a total of 1049 completed the questionnaire in a usable manner; seven returned unusable questionnaires; 21 students had left the campus; and 85 did not return the questionnaire. Other students volunteered to fill out the questionnaire but their results are not included in the various studies conducted by SAR.

The sample represents nearly eight per cent of the undergraduate enroll-

ment on University Park campus during the 1962 Spring Term. Five variables—student's class, college, sex, grade-point-average, and fraternity or nonfraternity status—were studied. In these respects the sample was representative of the entire undergraduate student body. For example, the appropriate distribution by class of the sample was freshmen 29 per cent; sophomores 29; juniors 24; seniors, 18. The distribution of the entire student body was 26; 27; 25; and 22 per cent, respectively.

The mean grade point average of the sample was 2.41; of the general student body, 2.55. The percentage of men was 67 in the sample, compared to 66. The percentage of fraternity or sorority affiliation was 31, compared to 34 in the general student body. The distribution by College was very representative.

1. General Attitude Toward Education

A total of 16 items related to the student's attitude toward education in general. Twelve of these, broadly speaking, are concerned with the student's own motivation and four with his opinion of the motivation of others or of general concepts.

The first question of the survey was "When you first decided to go to college, what were your three most important reasons for doing so?" and the student was given nine choices from which he was to select the "most important"; "second most important"; and "third most important."

The nine reasons and the ratings given each by the Total group were (Col. A is "most important"; B is "second in importance; C is "third in importance"):

	Percent		
	A	B	C
1. Gain technical knowledge and skills for career	49	17	6
2. Good means to high salary	14	25	19
3. Prepare for happy marriage and family life	3	7	10
4. Parents counting on it	4	7	15
5. Improve social standing in society	2	6	12
6. Nothing else to do at time	1	2	4
7. Improve ideals, morals, and personality	1	9	11
8. Learn how to get along better with others	1	4	8
9. Get a liberal education and appreciation of ideas	23	21	13

Nearly half (49%) of the respondents placed as "most important" the reason "to gain technical knowledge and skills for career" and nearly 74% mentioned it as one of the three most important reasons.

"To get a liberal education and appreciation of ideas" was chosen as "most important" by 23%. "It would offer a good means to a higher salary" was selected by 14%. Reason No. 2 was most frequently placed as "second most important" and also "third most important."

GPA—Six rankings according to grade-point average (GPA) were made of the students surveyed according to the following scale: 1—0.0 to 1.4; 2—1.5 to 1.9; 3—2.0-2.4; 4—2.5 to 2.9; 5—3.0 to 3.4; and 6—3.5 to 4.0.

In all six GPA groups the same three items were ranked highest and in the same order as the entire group. However, there were small differences in percentage response. For example, response for Item 9 ranged from 20% (GPA 2) to 30% (GPA 6) and for Item 2, the response range was 9% (GPA 6) to 17% (GPA 1).

Year—Distribution of responses varied little in relation to "Year," not unexpectedly in view of the fact that the question was an attempt to determine the reasons for the original decision to go to college. The only variance from the results of the Total group was among seniors, who ranked No. 2 (Higher salary) and No. 9 (Liberal education) equally, 18%.

College—Some differences are indicated in rankings according to College distribution. No. 9 was chosen "most important" by half of Liberal Arts students and 39% of those in Education. No. 2 (Higher Salary) was chosen by a higher percentage of Agriculture, Business Administration, and Engineering students than the Total group.

No. 1 (Technical knowledge) was given much greater weight by students in Agriculture (68), Engineering (69), Chemistry and Physics (73) and Physical Education (68) than the Total group (49).

Sex—Greater discrepancy in frequency from Total responses is indicated with this variable than any other. The women placed No. 9 (Liberal education) highest (43), No. 1 second (37) and No. 4 (Parents counting on it) third (6), with only 2% regarding No. 2 (High salary) as most important. Men students ranked No. 1 first (53); No. 2 second (19) and No. 9 third (13).

Greeks—Fraternity and sorority affiliation as a variable indicated some differences. No. 1 (Technical knowledge) was selected by 52% of the independents as most important but by only 44% of those with fraternity or sorority affiliation. Other differences were shown for No. 9 (Liberal Education—28% for Greeks and 20% for Independents) and for No. 2 (High salary—10% for Greeks and 15% for Independents.)

2. The Current Reason

The next question was related to those already discussed. "Of the nine reasons listed, which is the single

Note: Principal investigators for this study were Mrs. Gloria Bernheim and Mrs. Dolly Henderson.

most important reason for going to college now?" Presumably the results would indicate the changes in motivation which have occurred with time.

Non-response to this question (10%) was the highest of all items on the questionnaire, which may suggest that some students are uncertain as to why they are in college and that this lack of certainty has arisen since they have been enrolled at PSU. (Range of non-response by College was from 6% for Chem-Physics to 13% for Liberal Arts.)

Total—Overall, the original reasons for attending college and the present reasons for being here are closely related. Items Nos. 1, 9, and 2 are still the main reasons and the percentages for each item are only slightly different, the maximum difference being 5% for Item 1 and the minimum "zero" for No. 8. There was a somewhat lower rating for Nos. 1 and 2 and slightly higher for No. 9.

The trend, if any, as indicated suggests more emphasis on Liberal Education and slightly less on technical knowledge.

GPA—The distribution of rankings by GPA was virtually the same in answer to this question as it was in answer to the question about education in general. No. 9 was the choice of 17% in GPA 1 and of 35% in GPA 6. Responses of Nos. 1 and 2 together (Technical Knowledge and Higher Salary) totalled 63% of GPA 1, and ranging down to 49% of GPA 6.

Year—Apparently not significant in differentiating past and present motivation.

College—As in the case of past motivation, answers to the question of present reason for attending the university varied by college to significant degree. However, students in Education, Engineering, and Mineral Industries placed No. 3 (Happy Marriage and Family Life) in third place (rather than No. 2 "Higher Salary" as in the past motivation question.)

Sex and Greek—Also the same, with some variations in percentages, for the present and past motivation. The variable "Greek affiliation" also showed virtually little difference.

In general, therefore, it would seem that motivation has changed little, if it can be assumed that the student's recollection of past motives can be relied on.

3. Goals of Others

A series of questions which sought the student's opinion on the goals in education in general began with the item:

"A college degree is necessary for social and economic success." (Indicate whether strongly agree, agree, disagree, or strongly disagree.)

Total—Total response to this question was 25% strongly agree; 50% agree; 23% disagree; 2% strongly disagree. In other words, three-fourths of the stu-

dents felt that a college education is necessary to material success.

Year—as a variable, the student's class showed only small differences from the Total response. From freshman to senior year, the percentages agreeing were: 75, 76, 77, and 73.

GPA—significant differences were indicated. Students in GPA 1 agreed by 87 per cent while those in GPA 6 agreed by only 67%. In the middle range of averages there was little variation from the Total findings.

College—students in Business Administration, Education, Home Economics, and Physical Education express agreement 5-9% higher than the total response; students in Chemistry and Physics, Engineering, and Mineral Industries express agreement 8-10% lower than Total, those in Liberal Arts and DOC show less than one per cent difference from Total response.

Sex—84% of the women but only 71% of the men agree that a college degree is necessary for social and economic success. The finding may suggest that women tended to emphasize the social aspect of the question in view of the fact that the men students in answering the previous question on motivation for college tended to emphasize the occupation-oriented reasons.

Greek—more than 81% of the Greeks agree, contrasted to 73% of the independent students.

4. College opportunity

The next item was stated, "To me, having the opportunity to go to college is (a) extremely important; (b) fairly important (c) not too important."

Total—84% checked extremely important, 15% fairly important, and less than one per cent not too important.

GPA—the range of responses "extremely important" was from 79% to 90% in the six GPA groups.

Year—no significant variations from Total response were noted in the Year groupings.

College—again, no significant variations from Total response were noted.

Sex—very little difference from Total response.

Greek—89% of Greeks said "extremely important" but only 82% of independents.

5. Women in College

Reflecting opinions on the motivation of other students is the item, "To find a marriage mate is an important reason why most girls go to college," with a choice of "strongly agree," "agree," "disagree," and "strongly disagree."

Total—15% strongly agree, 55% agree, 27% disagree, and 3% strongly disagree.

GPA—those in GPA 1 (lowest) scored highest agreement, 30% strongly agree and 44% agree; none indicated "strong disagreement."

College—the greatest variation from Total response was shown by students in Education, who expressed 64% agreement, as opposed to 70% for the total. Chemistry and Physics showed 64% and Home Economics 65%.

Sex—understandably, variation from Total was greatest in this variable. Women indicated 62% agreement; men 71%.

Greek—practically no variation from total, with only 2% difference between Greeks and Independents.

6. Goals of a University

"The single most important goal of a good college or university should be: (a) provide a general or liberal education and appreciation of ideas; (b) guide a student in developing morals and values for a happier life; (c) provide technical knowledge and skills in preparation for a future career."

In this item, the students were given a chance to select an appropriate goal for the school.

Total—49% chose "liberal education and appreciation of ideas; 7% "morals and values"; 15% "technical knowledge and skills." It should be noted here that in answering a previous question on past motives, 44% gave "technical knowledge and skills" as first choice.

GPA—none of GPA 1 group selected the second choice, 52% chose "general or liberal education." Choice No. 3 was selected by only 40% of GPA 5; 50% by Group 6. These were the extremes in Choice 3. Other responses varied little from Total.

Year—53% of seniors selected Choice 1, somewhat in contrast to their response to a related question on past motivation, when only 25% selected "liberal education" as a goal for themselves.

College—Mineral Industries students indicated the least acceptance of Choice 1 (24%) and Liberal Arts the highest (71%). Others were Agriculture, 29; Chemistry and Physics, 29; Engineering, 29; Business Administration 41; Physical Education 48; DOC 54; Education 64; Home Economics 65.

The highest percentage in selecting Choice 2 (morals and values) was by Physical Education students, 20%.

Sex—53% of men chose "technical knowledge," 29% of women.

Greek—no significant differentiation.

7. Parents Choice

"One of the major reasons why I came to college was because my parents wanted me to." was one of the items, and the students were asked to choose "strongly agree"; "agree"; "disagree"; or "strongly disagree."

Total—strong agreement, 5%; agree, 39%; disagree 40%; and strongly disagree 16%. Total of agreement, 44%; disagreement, 56%.

GPA—lowest GPA has greatest agreement, 52%; highest GPA has greatest disagreement, 64%.

Year—Agreement advances with year; freshmen showed 39% agreement; seniors 48% agreement.

College—Lowest agreement by Mineral Industries (30), Engineering (32) and Chemistry-Physics (36). Highest was by Home Economics (70) and Physical Education (52).

Sex and Greek — only very slight differentiations from Total response.

8. Liberal Education

"Most students go to college to gain a liberal education and appreciation of ideas." Select from strongly agree, agree, disagree, strongly disagree. The item, of course, is related to the choices previously made in their own motivations; in this case, the student views the motivations of others.

Total — 36% agree; this can be compared to the 23% who selected this reason for their own decision to go to college; and to the 25% who gave it as their reason for being in college (present motivation).

GPA — highest agreement (61%) in lowest GPA; in GPA 6, only 19% agree. For the items on which the student indicated his own motivation, exactly the opposite relationship existed.

Term — freshmen show highest agreement, 45%; senior the least, 27%. This is a significant difference from the Total group but is the same response pattern as that for the student's own motivations.

College — Home Economics (63) and Physical Education (48) were highest in agreement; Mineral Industries (27) and Engineering (29) were the lowest. Students in Liberal Arts constituted the only group which indicated a lower percentage of agreement than on the items which reflected the student's own motivation.

Sex and Greek — only small differences from total response.

SUMMARY

The first part of the Survey dealt with the student's general attitude toward education, including his past motives for going to college, his present motives, and what he believes are the motives of others.

The three past motives most fre-

quently cited by the local group were: "to gain technical knowledge and skills for my career"; "to get a liberal education and appreciation of ideas;" and "offer a good means to a higher salary." Women students selected as third choice, "my parents were counting on it."

More of the students in Agriculture, Business Administration, Mineral Industries, and Engineering made their first choice "higher salary" than did those in other colleges; students in Education and Liberal Arts gave "liberal education" as first choice.

The reasons given for past and present motivations are closely related.

Nearly half of the students agreed that one of the major reasons they came to college was that their parents wanted them to, but this reason apparently did not take precedence in forming the decision to go to college.

The importance of attending college for social and economic success was overwhelmingly stressed.

There appears to be some differentiation in the motives of self and of others, especially of women students.

The students were about equally divided in their opinion that the university should provide "technical knowledge or skills" and "a liberal education." Women emphasized the latter, men the former purpose. The data may suggest that the students tend to idealize the university concept and to differentiate between "is" and "ought."

(The next part of the survey deals with the student's general attitude toward Penn State.)

CALENDAR

Friday, March 22

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. George A. Desborough, University of Wisconsin, on "Ore Microscopy and Its Future Applications to Earth Sciences."

Saturday, March 23

Winter Term Commencement, 10:30 a.m., Recreation Building.

Monday, March 25

Spring Term Orientation and Registration begins, ends March 27.

Thursday, March 28

Spring Term classes begin, 8 a.m.

Saturday, March 30

Cosmopolitan Songfest of Indonesian, Philippine and American Folksongs, 2-5 p.m., HUB Music Room.

Sunday, March 31

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Eugene Carson Blake, stated clerk, The United Presbyterian Church.

Monday, April 1

Lecture by Dr. Edward Teller, noted nuclear scientist, 8 p.m., Schwab Auditorium, on "The Atlantic Community and Nuclear Arms," sponsored by the Graduate Lecture Series and the College of Chemistry and Physics.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. E. W. Radoslovich, C.S.I.R.O., Adelaide Australia, on "The Structures of Micaceous and Their Implications."

SPRAYING

The annual dormant spray program will begin March 25 and continue through April as weather permits. All trees and shrubs will receive the dormant spray, which is not harmful to the skin, clothing, or paint unless completely saturated or the skin is irritated by rubbing. If allowed to dry, the residue can be removed easily. Good coverage on high trees can be done only with a mist sprayer and only during calm weather when the temperature is above 40°F.

faculty BULLETIN

Vol. 50, No. 34 March 22, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Fellowships

Announcements have been made of the winners of fellowships awarded by both the Woodrow Wilson Foundation and the National Science Foundation and Penn State is well represented.

Five students have won Woodrow Wilson Fellowships which cover tuition and fees for the first year of study in a graduate school of the fellow's choice, plus a stipend of \$1,500. They were among 1,475 who received awards throughout the country from among 9,767 candidates at 907 colleges. Awards are made to encourage consideration of college teaching as a career and the program is aided by a Ford Foundation grant.

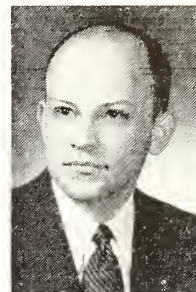
Ten students have been awarded N.S.F. Graduate Fellowships in the sciences, mathematics, and engineering for the next academic year and twelve students received honorable mention. A total of 1,880 students received fellowships in the country. Provided are basic stipends at \$1,800 for the first-year level of graduate study, \$2,000 for study at the intermediate level, and \$2,200 for the terminal year.

Nine of the 288 secondary school science and mathematics teachers who were awarded National Science Foundation Summer Fellowships will study at Penn State, including a College Area Schools teacher of mathematics. Others will come from Indiana, Maine, New Jersey, New York, Ohio, and Pennsylvania for study.

Williamsport aided by CCLE program

Williamsport, Pa., civic leaders are attending a series of ten meetings devoted to urban policies as arranged by the University's Center for Continuing Liberal Education in cooperation with the Brookings Institution.

The program will continue bi-weekly until July 31 with Penn State faculty members as leaders of discussions which are related to the social, economic, political, cultural, and physical dimensions of the problems of urbanization of the middle-sized city.



Dr. Roy Buck

Dr. Roy C. Buck, associate director of the Center, worked with Dr. John Osman, Brookings Institution staff director

of the program and with Williamsport officials as well as with Lycoming College people in developing the program. The Brookings Institution has conducted similar conferences in a number of major cities but this is the first in the nation in a town of this size and is also the first in Pennsylvania.

Purpose of the conference is not to find solution to specific problems of the city but to give civic leaders the background developed through research by scholars throughout the country. Each session is devoted to a discussion of the reading materials provided and of the talks by leaders.

Penn State faculty members participating in addition to Dr. Buck are Dr. John Frey, Helmut J. Golatz, Dr. Dale Harris, Dean Lawrence J. Perez, Gifford H. Albright, and Dr. Harold F. Goldsmith.

Other speakers include Leo Molinaro, executive vice president of the West Philadelphia Corp.; Dr. William Letwin, associate professor of industrial history at M.I.T.; Robert T. Ryan, president of the Regional Industrial Development Corporation, Pittsburgh; and Dr. Scott Greer, professor of sociology and political science at Northwestern University.

Education open

An open house program in the Chambers Building will be staged Sunday, April 7, to give students and others an opportunity to see the new building.

Information centers throughout the building, which was opened last summer, will be manned by members of Phi Delta Kappa and Pi Lambda Theta, education honor societies, from 2 to 4 p.m.

The building is named for Dr. Will Grant Chambers, first dean of the College of Education who retired in 1937 and died in 1949.

From the registrar

The following note from the Registrar is addressed to the members of the faculty:

"The Registrar wishes to commend the faculty for the promptness with which grades were reported for the Winter Term. As of the final deadline at 9 p.m., Friday, March 22, only 446 grades were not reported out of a total of 84,377 grades for the term. This outstanding performance on the part of the faculty enabled the Registrar to complete term grade reports for students at all locations by Sunday afternoon, March 24, rather than Monday, March 25, as originally planned."

Irrational choice

Dr. Maxwell H. Goldberg, professor of English and associate director of the Center for Continuing Liberal Education, will present the final paper in the series on "The Problem of the Irrational Choice," Thursday, April 4, at 8 p.m. in the Helen Eakin Eisenhower Chapel lounge.

The series, which has been sponsored by the Faculty Committee of the University Christian Association, will conclude with a panel discussion by the faculty members who gave papers previously: Dr. Vincent P. Norris, assistant professor of advertising; Dr. Harold K. Schilling, dean of the Graduate School; Dr. Stanley H. Rosen, assistant professor of philosophy; and John E. Haag, instructor of English. Dr. Roy C. Buck, associate director of C.C.L.E., will preside.

Faculty members and graduate students are invited to hear Dr. Goldberg sum up the series and the discussion by the panel.

MOVING

The Motion Picture and Photographic Studios, which have occupied the basement of the Cathaum Building for 20 years, have moved to the ground floor level of Carnegie Building. Complete service will be resumed Monday, April 1. The new telephone number is UN 5-6507.

Dr. Teller lecture Monday

Dr. Edward Teller, noted physicist who will speak Monday, April 1, at 8 p.m. in Schwab Auditorium, lectured on the campus nearly 26 years ago when he was professor of physics at George Washington University and had been in this country for only two years.

On April 27, 1937, he talked on "Nuclear Physics and Its Application," in the old Bull Pen, or Chemistry Amphitheatre, before members of Sigma Pi Sigma, physics honorary.

His lecture Monday, sponsored by the Graduate Lecture Series and the College of Chemistry and Physics, will be on a related subject, "The Atlantic Community and Nuclear Arms."

Doors to Schwab Auditorium will open at 7:40 p.m.

Dr. Teller is currently professor of physics at large at the University of California at Berkeley. In recent years he has made contributions to the spectroscopy of polyatomic molecules and to the theory of atomic nucleus. He has also maintained an interest in the development of the Sherwood Project, the controlled thermonuclear program, and in the development of Project Plowshare, the peaceful uses of nuclear explosives.

It is in his championing of further testing and development of nuclear weapons that the public has come to know him. In a speech in February he also urged that this country share with western powers its secrets in nuclear developments to a fuller extent than it has.

"It is not necessary and neither is it desirable," he said, "that we should



Dr. Edward Teller
Urges more information to allies

strive for a monopoly in space among western nations. In some fields like meteorology and oceanography the necessity of cooperation is particularly obvious. But there is no field in which we have impeded international cooperation in a manner more determined (and in my opinion more damaging) than in the field of nuclear explosives. Not only have we erected artificial barriers in connection with the military applications of these explosives. Even the important peaceful uses (which we call Project Plowshare) have not been placed on a completely broad basis in which our NATO Allies can join to a full extent."



Pittsburgh Symphony on Artists Series

The Pittsburgh Symphony Orchestra, directed by William Steinberg, makes its annual visit to the campus on the Artists Series Sunday, April 7, at 8 p.m. in Recreation Building. Tickets will go on sale to the public beginning Thursday, April 4, at 9 a.m. at the HUB desk. The program will include Brahms' Symphony No. 4; Wagner's "Faust Overture"; von Weber's Symphony, Opus 21; and Samuel Barber's "Die Natali."

PERSONNEL MATTERS

Arthur T. Thompson, associate dean of the College of Engineering, will become dean of the College of Industrial Technology at Boston University July 1. A member of the faculty since 1945, Thompson joined the staff of the Ordnance Research Laboratory as assistant. In 1952 he was made assistant director in charge of operations and in 1957 associate director of the Lab. He assumed his present position in 1961. He holds bachelor's degrees from Colby College and Penn State and master's degrees from Penn State, Harvard, and Chicago.

Frederick M. Oldach, who retired from the University in 1959, died in Philadelphia March 11. He joined the faculty in General Extension in 1948 as assistant professor of geology, teaching at the Ogontz Campus.

Joseph A. Cima, instructor in mathematics, who received his doctor of philosophy degree on Saturday, has been awarded a postdoctoral grant by the National Science Foundation. He will study at Stanford University. He was one of 185 recipients of the grant throughout the nation.

William E. Gibbs, vice president of the York, Pa., advertising agency of Gibbs, Sauters, and Gibbs, Inc., has been appointed instructor in journalism for the Spring Term and will teach advertising layout and production. He is a 1957 graduate in journalism.

Dr. Edward C. Thaden, associate professor of European history, has received a grant from the American Council of Learned Societies and the Social Science Research Council to continue his research in conservative nationalism in 19th-century Russia.

Dr. Gerald M. Torkelson, professor of education, is on leave to work with the Federal government as a research coordinator for audio-visual activities under the National Defense Education Act, directing activities of Part B, Title VII, in the information-disseminating branch of NDEA, in Washington. He will be on leave until July, 1964.

Books

William S. Decker, assistant professor of marketing, is editor of a book, "Emerging Concepts in Marketing," published this month. The book represents the proceedings of the Winter Conference of the American Marketing Association, held in Pittsburgh Dec. 27-29.

CALENDAR

Friday, March 29

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Hans Panofsky, professor of meteorology, on "Dynamic Response of the Boundary Layer to Change in Surface Roughness."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Philip White, distinguished visiting professor of botany, on "The Development of Defined Nutrients for Isolated Cell Culture."

"Between Thee and Me" dramatic presentation by Donald L. Campbell, Jr., sponsored by the Office of the Coordinator of Religious Affairs, 6 p.m., Warnock (North Halls) Lounge.

Saturday, March 30

Cosmopolitan Songfest of Indonesian, Philippine, and American folksongs, 2-5 p.m., HUB Music Room.

"Between Thee and Me" dramatic presentation (see above), 1:30 p.m. Pollock Halls lounge; 6 p.m., Simmons Hall lounge.

Sunday, March 31

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Eugene Carson Blake, stated clerk, The United Presbyterian Church in the U.S.A.

University Christian Association Forum, 7:30 p.m., Room 101, Chambers. Dr. Eugene Carson Blake, on "Ecumenical Developments in the United States."

"Between Thee and Me," dramatic presentation (see above), 1:30 p.m., Waring (West Halls) Lounge.

Monday, April 1

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Herschel Leibowitz, psychology, on "Psychology in the Automated Technology of the Future."

Graduate School Lecture Series, 8 p.m., Schwab Auditorium. Dr. Edward Teller, noted physicist, on "The Atomic Community and Nuclear Arms." Co-sponsored by the College of Chemistry and Physics.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. E. W. Radoslovich, C.S.I.R.O., Adelaide, Australia, on "The Structures of Micaceous and Their Implications."

Tuesday, April 2

Acoustical Society of America, Central Pennsylvania chapter, meeting, 7:30 p.m., Room 214, HUB. Dr. Lawrence G. Kersta, Bell Telephone Laboratories, on "Voiceprints—A New Technique for Identification."

Wednesday, April 3

Graduate Mining Seminar, 4 p.m., Room 304 Mineral Industries. Dr. M. E. Bell, assistant dean for research, on "The Limitations of Operations Research."

Thursday, April 4

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks Building.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Johan Coetzee, University of Pittsburgh, on "Acid-Base Reactions in Non-Hydrogen Bonding Solvents."

Colloquium on "The Problem of the Irrational Choice," 8 p.m., Chapel lounge. Dr. Maxwell H. Goldberg, associate director, C.C.L.E., in summation of series. Also, panel

discussion by V. P. Norris, H. K. Schilling, S. H. Rosen, and J. E. Haag.

Biological Sciences Lecture Series, 3:55 p.m., Room 108 Tyson. Dr. J. M. Hirst, plant pathologist, Rothamsted Experimental Station, Harpenden, England, on "Fungus Spore Dispersal."

Friday, April 5

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. C. O. Ingamells, chief analyst, mineral constitution laboratories, on "Analytical Problems in Earth Science."

Fluid Mechanics Seminar, 1 p.m., Room 232 Hammond. Shell Oil Company films, "Approaching the Speed of Sound" and "Transonic Flight."

College of Agriculture Seminar, 4:15 p.m., HUB Auditorium. Panel discussion by Peter W. Fletcher, Walter I. Thomas, and Loren D. Tukey, on "Research and Needs of Pennsylvania in Plant Industries."

REPRINTED

An article by President Walker which first appeared in the February, 1961, issue of the *Journal of Engineering Education* has been reprinted in a new book titled, "Higher Education in Engineering and Science," edited by Dr. Herman A. Estrin, Newark College of Engineering, published by McGraw-Hill. The article is titled, "Engineers and/or Scientists."

CAMPUS PATROL

Members of the University's Campus Patrol are attending training courses in police work being conducted by representatives of the Federal Bureau of Investigation. The classes are being held weekly from March 20 to May 8 in Bellefonte. Many of the Patrol members have attended previous schools in other subjects.

ALUMNI FUND

Contributions to the 1963 Alumni Fund total \$135,979.64 as of March 22, from 3,146 contributors.

BIDS RECEIVED

The General State Authority has announced receipt of proposals for construction work in the Home Economics Building, to provide four new laboratories and other facilities. The total of the bids received was \$254,085, which is under the allocation the Authority has made for the project.

Grad honored

Dr. Louis Rosen, who received his doctor of philosophy degree in physics in 1944 working with the late Dr. Wheeler P. Davey and Dr. Wayne Webb, professor of physics, is one of five U. S. scientists named by the Atomic Energy Commission to receive the E. O. Lawrence Award for 1963.

The award will be given him April 25 for the development of new experimental techniques and their application to a better understanding of the nucleus as well as the diagnosis of weapon behavior.

Blake speaker

Dr. Eugene Carson Blake, author of a much discussed proposal for church union, will speak on, "Ecumenical Developments in the United States," Sunday, March 31, at 7:30 p.m. in Room 101 Chambers.

The talk is sponsored jointly by the faculty committee of the University Christian Association and Westminster Foundation of State College.

Former president of the National Council of Churches and at one time holder of several important positions in the World Council of Churches, Dr. Blake is now Stated Clerk of the General Assembly of the United Presbyterian Church in the U.S.A.

Seminar on L.V.

The microwave facilities connecting the University Park and Altoona campuses will be used for the first time April 6 to carry two lectures originating on the U. P. campus to a Continuing Education Seminar in session at Altoona.

Lectures by Richard P. Guild and David H. Raphael, both assistant professors of industrial engineering, will be transmitted to the seminar which will be attended by design engineers and managers of technical operations of the Altoona area.

Two-way telephone communications will be used for a question and answer period following the lectures.

Ag seminars

The Research Seminars of the College of Agriculture will resume Friday, April 5, at 4:15 p.m. in the HUB Auditorium, with Peter W. Fletcher, Walter I. Thomas, and Loren D. Tukey discussing "Research and Needs of Pennsylvania in Plant Industries."

Other seminars will be held April 19, April 26, May 10, and May 17, the times and places to be announced later. Topics to be considered are research and needs in animal industries and in land and water resources, the agriculture outlook, and a summary of the series.

Cricket club

Graduate students and faculty members interested in playing cricket are advised that about ten matches will be played by the Cricket Club this year between May and September. Practices will begin, weather permitting, during April. Those interested should contact D. E. W. Vaughan (secretary) Room 31 Mineral Sciences.

ITEMS OF INTEREST

Articles and Papers

- COLOGNE, R. M., home-community relationships, "The Education of Afghan Women," before the Junior Women's Club of Camp Hill.
- FLETCHER, P. W., forestry, with Lull, H. W., "Comparative Influence of Hardwood Trees, Litter, and Bare Area on Soil-Moisture Regimen," a bulletin of the Missouri Agricultural Experiment Station.
- HANSEN, CHADWICK, English, "The Incomplete Loyalist," in the Carleton Miscellany III; 65-67.
- reviews in the American Quarterly, XIV, (1962) on three articles on jazz.
- HARRISON, J. M., journalism "How a Town Broke a Newspaper Monopoly" in the Winter issue of Columbia Journalism Review.
- Hoke, J. H., metallurgy, "The Correlation of Stress Corrosion Cracking and Hydrogen Embrittlement with Brittle Fracture Susceptibility of High-Strength Steels," at an Aerospace Materials Symposium in New York, March 16-18.
- HOSTETLER, J. A., sociology at Ogontz, with Calvin Redekop, Earlham College, "Education and Assimilation in Three Ethnic Groups," in the December issue of the Alberta Journal of Educational Research.
- KAPITANOFF, LORRAINE, Slavic languages, translation, and Meyer, W. E. mechanical engineering, editing of publication, "Kinetic Interpretation of the M-Process," by A. S. Sokolik.
- MITCHELL, D. R., mining engineering, and CHARNIBURY, H. B., on leave, a chapter on Cleaning and Preparation in the book, "Chemistry of Coal Utilization," published by the National Academy of Sciences-National Research Council.
- MITZEL, H. E., psychology and Education Research, with D. E. MEDLEY, City University of New York, "Measuring Classroom Behavior by Systematic Observation," a chapter in the "Handbook on Research on Teaching," published by the American Educational Research Association.

- NISBET, J. S., and QUINN, T. P., electrical engineering, "The Recombination Coefficient of the Nighttime F-layer," in the Feb. 15 issue of the Journal of Geophysical Research.
- PATERNOST, JOSEPH, Slavic languages, "Problems of Slovenian Orthography," at the meeting of the Pennsylvania chapter, American Association of Teachers of Slavic and East European Languages, in Pittsburgh, April 6.
- RICHARDS, M. D., and CARZO, ROCCO, JR., management, a monograph, "Mathematics in Collegiate Business Schools," published by the South-Western Publishing Co.
- SMITH, W. S., theatre arts, "Charles Bradlaugh and the Secularists," in the March 13 issue of The Christian Century.
- SNOWDON, J. C., Ordnance Research Laboratory, "Mechanical Impedance and Transmissibility of Simply Supported Beams," in the February issue of the Journal of the Acoustical Society.
- THOMAS, W. I., and GORSLINE, G. W., agronomy, "Genetic Control of Chemical Element Accumulation in Maize Corn Leaf Tissue," at the Maize Genetics Conference, University of Illinois, March 9.
- WASIKO, J. B., agronomy, "Drought Tips from 1962 for 1963," in the March 9 issue of Pennsylvania Farmer.
- "Summer Annuals High Forage Producers," in the winter issue of Science for the Farmer.
- WENTZ, R. E., University Christian Association, "The Knowledge of Human Validity," in the March issue of MOTIVE.

Elected and Appointed

- ADAMS, EDWARD, art, appointed associate editor, School Arts.
- HOWELL, B. F., JR., geophysics, appointed to the steering committee, American Geologic Institute panel on the Improvement of Earth and Space Science Teaching in Secondary Schools.
- MALCOLM, R. E., accounting, elected a member of the American Institute of Certified Public Accountants.
- MATHIL, E. L., art education, elected presi-

dent of the National Art Education Association.

The Arts

- ADAMS, EDWARD, art, design of the winter, 1963 issue of Everyday Art magazine.
- ALTMAN, LINDA, art, exhibiting in three national exhibitions: Norfolk Museum "American Drawing Annual"; Associated American Artist Galleries, "The 100 Prints of the Year"; and Ball State College, "National Drawing and Sculpture Exhibition."

Lectures and Talks

- BELL, W. D., botany, "Yellow-Stripe Phenotype in Maize" and "Genetic Determination of Cyclic Hydrozamate Content of Maize Seedlings," at the Maize Genetics Conference, University of Illinois, March 9.
- DEE, J. P., management training, "Industrial Communications" before the members of the Reading and Bucks Counties Manufacturers Association March 28.
- DILLER, N. R., management training, "Mental Health and Management," before the National Management Association Chapter at Chardon, Ohio.
- "Management's Horse Sense," before members of the Foreman's Club at Praett and Letchworth Division, Dayton Malleable Iron Co., Buffalo.
- FERGUS, C. L., botany and plant pathology, illustrated talk on mushrooms before Westmoreland County Society of Botany.
- HAGER, C. F. and GOLDBERG, M. H., C.C.L.E., discussion of degree programs for adults at conference at Maxwell Air Force Base, Montgomery, Ala.
- HEILMAN, ARTHUR, Reading Center, Teaching Critical Reading in the Content Fields," for the District Conference of the International Reading Association, at Wisconsin State College and Institute of Technology.
- HENNINGER, G. W., music, "Vitalizing Music Theory by way of Personalized Visual Aids," at the Music Educators National Conference March 2 in Atlantic City, N. J.

faculty BULLETIN

Vol. 50, No. 35 March 29, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

The Arts

art exhibit

An exhibition of contemporary Central American art will be held in the HUB gallery, April 15-May 6. More than 30 oil paintings and drawings by some 27 artists will be included in the exhibit.

The artists are from Costa Rica, Guatemala, El Salvador, Honduras, Panama, and Nicaragua.

A reception for dignitaries from the six countries and for State Department officials will be held in the gallery April 20 at 4 p.m.

artists series

The Pittsburgh Symphony Orchestra will present the next **Artists Series** program Sunday at 8 p.m. in Recreation Building. Directed by William Steinberg, the Orchestra will play Brahms' Symphony No. 4; Wagner's Faust overture; von Webern's Symphony, Opus 21; and Samuel Barber's "Die Natali."

The concluding program in the 1962-63 Artists Series will be given April 25 and 26 by Joan Baez, folk singer.

mezzo-soprano

LoisAnn Oakes, mezzo-soprano, will present a special vocal program Wednesday, April 10, at 8:30 p.m. in Schwab Auditorium.

A graduate of Julliard, Miss Oakes is currently teaching at Wilson College, at Chambersburg, and has given recitals at New York's Carnegie Recital Hall three times as well as at both Wilkes and Wilson Colleges.

(Continued on page six)

Governor speaks

Gov. William W. Scranton will address the 20th annual meeting of the Pennsylvania Association of Artificial Breeding Cooperatives Thursday, April 11, at 6:30 p.m. in the HUB Ball Room.

A limited number of tickets is available to faculty members at \$4.50 per person. Reservations can be made by calling UN 5-5491. Tickets should be picked up in Room 213 Borland Building by noon, Wednesday, April 10.

AAUP meeting

The Penn State chapter of the American Association of University Professors will meet Tuesday, April 9, at 7:30 p.m., in Room 124 Sparks.

Voting will take place on two amendments to the By-Laws and a discussion will be held concerning a change in the relationship of Social Security retirement to the Pennsylvania Employees Retirement System, embodied in a bill introduced in the State House of Representatives.

The State Division of AAUP will meet tomorrow (Saturday) at 10 a.m. in the new P.S.E.A. building on Third St., Harrisburg. Local chapter members are urged by chapter officers to attend the meeting at which the presidents or their representatives from the colleges of the State will discuss problems mutual to administrations and faculties.

Urey lecture

Dr. Harold C. Urey, noted chemist now professor of chemistry at the University of California, who will present the 37th annual Priestley series of lectures April 15-19, spoke on the campus Dec. 1, 1949.

He addressed the Physics Colloquium on the subject, "Origin of the Earth" and the general public in Schwab Auditorium on "The Case for Atlantic Union."

It is coincidental that Dr. Edward Teller, noted physicist who, with Dr. Urey and others, played a major role in the development of the atomic bomb, spoke on campus this week on the subject, "The Atlantic Community and Nuclear Arms."

Dr. Urey's lectures in the Priestley Series will be on the general subject, "Some Cosmo-Chemical Problems." Four of the five daily lectures will be given at 8 p.m. in Room 119 Osmond, the lecture on Thursday, April 18, being at 4 p.m.

Newell to visit

The Space Science and Engineering Committee, consisting of a group of professors interested in the space sciences, has invited Dr. Homer E. Newell, Director, Office of Space Science, NASA, to visit the campus on April 10.

Dr. Newell will address interested graduate faculty and graduate students at 4:00 p.m. in the Mineral Industries Auditorium on the subject, "The National Space and Science Program."

Dr. Newell was named Director of the Office of Space Sciences, NASA, in November 1961. He was formerly Deputy Director of Space Flight Programs. Before joining the NASA in 1958, he was acting superintendent of the Atmosphere and Astrophysics Division of the U. S. Naval Research Laboratory. He was also Science Program Coordinator for Project Vanguard, the U. S. scientific Earth satellite program for the International Geophysical Year, and was Chairman of the Rocket and Satellite Research Panel in 1959 and 1960.

Dr. Newell earned both his bachelor and master of arts degrees from Harvard University and his Ph.D. degree in mathematics from the University of Wisconsin.

Arms control

A public discussion on the subject, "The United States and Soviet Positions on Arms Control and Disarmament," with a Russian embassy official and a U. S. adviser on disarmament as speakers, will be held May 6, sponsored by the department of political science.

Robert Matteson, senior adviser of the U. S. Arms Control and Disarmament Agency, and adviser to the U.S. delegation to the current 18-nation Disarmament Conference in Geneva, and Victor Karpov, first secretary of the Embassy of the Soviet Union in Washington, D. C., and also an adviser on disarmament, will be the speakers.

The session will be held at 3:30 p.m. in Schwab Auditorium and full opportunity for questions will be given.

Graduate lecture

Dr. Edward A. Ackerman, executive director, Carnegie Institution of Washington, D. C., will present the next talk in the Graduate Lecture Series Tuesday, April 16, at 8 p.m. in Room 121 Sparks.

He will speak on the subject, "The Armed and Disarmed World."

PERSONNEL MATTERS

Dr. Leo H. Sommer, professor of chemistry, received the Frederick Stanley Kipping Award in Organosilicon Chemistry this week from the American Chemical Society. The award, which is supported by the Dow Corning Corp., consists of a citation and \$1,000. The award was presented at A.C.S. meetings at Los Angeles yesterday (Thursday). Dr. Sommer presented a paper on "Stereochemistry of Asymmetric Silicon." Last year he was awarded the John Simon Guggenheim Memorial Fellowship to conduct studies in organosilicon.

Dr. Anton J. Kovar, associate professor of botany, has been awarded a fellowship by the Organization of American States and is on leave for the Spring Term to study the ecological and paleoclimatic conditions in the Valley of Mexico. From studies of pollen in lacustrine and swamp sediments he hopes to be able to infer the type of vegetation which dominated the Valley at certain periods, and in turn to deduce the climate of these periods.

Dr. Robert K. Vierck, professor of engineering mechanics, has been granted a leave for the Spring and Fall Terms to continue work on a textbook on vibration analysis.

STUDIOS

The motion picture studio of the University Division of Instructional Services is located at 112 West College Ave. The still photography facilities of UDIS, which are in the charge of Edward Leos, are now located in Room 13, Carnegie. Telephone is UN 5-6507.

INSTITUTE

An Institute for Advanced Graduate Students in Algebra will be held June 24 to August 16. The National Science Foundation has provided \$39,765 for the program, one of three nationally in different areas of mathematics. An institute of mathematical analysis will be held at Northwestern University and one in applied mathematics at Rice Institute.

BICYCLES

All bicycles ridden on the campus must be inspected and bear a tag issued by the Campus Patrol or the Borough of State College. A new inspection period ends April 15. Inspections are made at the Campus Patrol Office in the Telephone Building. All bicycles are required to have both front and rear lights, as specified by the Pennsylvania Vehicle Code.

SCHOLARSHIP

A memorial scholarship fund has been

DPI team to study programs

A 24-man team of visitors will study the University's programs for preparing teachers for elementary and secondary schools April 10 and 11. The visit is sponsored by the Pennsylvania Department of Public Instruction.

Hosts for the visiting educators will be the University Advisory Council on Teacher Education, which includes representatives from every College and additional faculty members from the College of Education.

"We are particularly pleased to welcome our distinguished visitors at this time," says Dr. Abram W. VanderMeer, dean of the College of Education, "because the visit presents the University with an opportunity to explain all aspects of its programs for the education of teachers to a group of knowledgeable professionals and to benefit from any suggestions they may make."

"Furthermore, the Department of Public Instruction will have the opportunity to 'test-run' its visitation procedures at a large university and so perfect its guidelines for such visits which have hitherto been confined to much smaller colleges and universities."

The basic purpose of the visits is to implement a new concept in certification of teachers for Pennsylvania's schools. Heretofore, transcripts of each student's college record were scrutinized in detail in Harrisburg. Under the new "approved programs" procedure, certification would be

granted on the recommendation of the designated administrative officer of a college or university whose teacher education programs had been approved previously by the State Council on Education.

Individually, the team will confer with many faculty members and visit many facilities throughout the University. They will be concerned not only with the professional education aspect of the programs but also with the general education of the prospective teacher and with the academic programs in the major teaching fields.

Among those to visit the University will be:

Dr. Robert A. Artman, Bucknell University, physics.

Dr. Karl O. Budman, Glassboro (N.J.) State College, secondary student teaching and secondary theory and practice.

Dr. Joseph S. Butterweck, D.P.I., graduate program.

Dr. Martin P. Chworowsky, University of Pennsylvania, human relations.

Dr. Richard Dershimer, D.P.I., objectives of teacher education and research.

Dr. Jack Dinger, D.P.I., special education.

Dr. Robert D. Duncan, Slippery Rock State College, social studies.

Anne G. Eifler, D.P.I., undergraduate programs, recreation, probationary school, food service.

Dr. Albert Eiss, D.P.I., biology.

Dr. Edward L. Fleckenstein, industrial arts and vocational industrial arts.

William D. Gombar, D.P.I., English, speech, and general education.

Dr. Hugh A. Heller, Franklin and Marshall, chemistry, earth and space science.

Dr. James D. Mack, Lehigh, library.

Dr. Sheldon Madeira, D.P.I., chairman of the team.

Dr. William D. May, Johnson (Vt.) State College, faculty qualifications and facilities of teacher education.

Dr. Lawrence Park, Genesco (N.Y.) State University College, organization and administration, and financial support.

Clio Reinwald, D.P.I., home economics.

Dr. E. Bruce Thomas, Philadelphia Museum College of Arts, art education and admissions and personnel services.

Dr. James J. Wright, West Chester State College, music education.

Dr. Frank Sills, E. Stroudsburg State College, physical and health education.

Dr. Elizabeth Newton, D.P.I., foreign language.

Dr. Charles F. Sevesta, Duquesne, mathematics.

Dr. S. Lloyd Toumey, Bloomsburg State College, business education.

established to honor the late Dr. R. Adams Dutcher and to aid deserving graduate students in the department of agricultural and biological sciences, which he served as head for 30 years until his retirement in 1951. He died April 20, 1962.

SERVICE

Alpha Phi Omega, national service fraternity, is seeking opportunities to be of service to the faculty and organizations of the campus and community. Some of its more recent projects include: conducting clothing drive for Cuban refugees; distributing canisters to stores for various charities; sorting and assembling materials for Easter Seal campaign; and ushering for Mass. The list of past projects is lengthy and varied.

CANDLELIGHT

An Easter Candlelight Dinner will be served in the Terrace Room of the Hetzel Union Building Sunday, April 14, from 5 to 6:45 p.m.

PARKING

Parking areas 1, 7, 11, 14, 20, 23, 30, 38, 40, 41, 46, 50, 61, 62, and 70, which were completely or partially closed from 2 a.m. to 6 a.m. during the winter for more efficient snow removal, are now open during those hours for parking according to the regular parking regulations.

Survey—

(Continued from page four)

College—Equal or more agreement, compared to Total Response, was shown by students in DOC, Agriculture, Business Administration, Chemistry and Physics, Education, Engineering, and Home Economics. Students in the Liberal Arts, Mineral Industries, and Physical Education, showed less agreement but well over half of the sample agreed nevertheless.

7. Specific criticisms.

"Penn State places too much emphasis on serving the State to the detriment of a good solid education." Again the students were asked to agree or disagree. The statement might indicate that for the students there is a relationship between specific criticisms of the University and a feeling that expected educational goals are, or are not, being fulfilled. **Total**—28% agreed, 72% disagreed.

Variables—There was some variation from Total Response but in all categories still much disagreement with the statement. There was somewhat more "dissatisfaction with Penn State" in the highest GPA group, the upperclassmen, and those in certain colleges, particularly the Liberal Arts.

8. Progressive School.

Students were asked to agree or disagree on the statement, "One would be justified in calling Penn State a progressive school."

Total—9% strongly agreed, 64% agreed, 22% disagreed, and 5% strongly disagreed.

GPA—The higher the GPA, the lower the percentage agreement (the same relationship held for the question on Penn State "doing a good job"). 82% of GPA-1 students agreed but only 56% of GPA-6 group did so.

Year—79% of freshmen but only 68% of seniors agreed.

College—Extremes of agreement were Engineers (67%) to Physical Education (84%).

9. Critical Problems.

The "most critical problem" at Penn State and the percentages of students choosing each item listed are given below:

	% Total
1. not enough physical facilities	5
2. poor administration	20
3. inadequate funds	36
4. low caliber of students	5
5. poor quality faculty	15
6. not enough professors	19

GPA—with one exception the order of choice for the three most frequently selected alternatives was maintained across all categories.

College—the range of selection of No. 3 was from 28% for DOC students to 52% for Home Economics. The second choice of students in DOC, Agriculture, Mineral Industries, and Physical Education was No. 5 (poor quality faculty). Students of other Colleges placed this problem third (Business Administration) and fourth (Liberal Arts, Engineering, and Education).

10. Tuition and State Support.

Three items dealt with problems of tuition and State support. The first was "Penn State receives adequate support from the State."

Total—1% strongly agreed, 16% agreed, 49% disagreed, and 34% strongly disagreed.

GPA—Students in GPA-1 showed 78% disagreement, those in GPA-6, 90%.

College—Highest agreement with the statement expressed by DOC (22%), Mineral Industries (20%) and Liberal Arts (18%). Highest disagreement by Physical Education (100%), Chemistry and Physics (88%), and Home Economics (87%).

The second item was "For a tax-supported school, the tuition at Penn State is _____." Choices (with total response indicated) were: 1. for too high (36%); 2. high (42%); 3. about average (21%); and 4. less than average (1%).

College—greatest variation from Total Response is indicated in this variable. The range was from 66% of Mineral Industries students who selected either "far too high" or "high" to 86% of Agriculture students.

Year—fewer freshmen (72%) than seniors (83%) feel the tuition is too high.

The third item was, "When Penn State does not receive enough support from the State, a tuition increase is justified." Total response showed 58% in agreement and 42% disagreed.

College—Agreement ranged from 45% (Mineral Industries) to 71% (Chemistry and Physics). Second highest agreement was shown by Agriculture students (65%).

Considering these three items, therefore, there is strong agreement that Penn State does not receive adequate support from the State; that tuition is high; and that a tuition increase is justified when the University does not receive enough support from the State.

11. General attitude.

"In my opinion, Penn State has an excellent reputation." Total agreement was 68%, disagreement 32%. "Strongly agree" was 14%.

GPA—students in GPA-1 agreed 78%; those in GPA-6, only 56%.

College—highest agreement from Home Economics and Agriculture (80%), and Engineering (78%). Least agreement by Liberal Arts students (52%).

Sex—73% of the men but only 59% of the women agree.

A second item related to general attitude toward Penn State was, "A degree from Penn State carries much prestige." Total response was "strongly agree, 14%; agree, 62%; disagree, 22%; and strongly disagree, 2%. In other words, more than three-fourths agree that a Penn State degree carries much weight.

Year—freshmen agreed 80%; seniors (the least) 72%.

College—Liberal Arts expressed the least agreement, 58%; Physical Education the highest, 92%. High agreement was also ex-

pressed by Engineering, Chemistry and Physics, Agriculture, and Home Economics students.

A third item in this general category was, "Upon graduation, a student with a degree from Penn State could feel qualified to compete with anyone." The Total Response was 17% strongly agree, 55% agree, 24% disagree, and 4% strongly disagree. Total agreement, therefore, was 71%, compared with 76% for the previous question to which it is closely related. **GPA**—agreement ranged from 83% for GPA-1 to 60% for GPA-6.

College—lowest agreement was by Liberal Arts (60%) and highest by Physical Education (88%), just as in the previous item.

The fourth item in this grouping was, "Penn State is on a par academically with the Ivy League Schools." Total response was 4% strongly agree, 32% agree, 48% disagree, and 16% strongly disagree—total agreement 36%, total disagreement, 64%.

GPA—most GPAs were near the Total Response, but GPA-1 agreed 43% and GPA-5 agreed only 31%.

College—ranged from 17% agreement for Liberal Arts to 57% for Engineering. Other lows, Business Administration, 26%, and Education, 29%; other highs, Mineral Industries, 52%, Agriculture 48%.

Sex—men, 41% agreement; women, 24% agreement.

In summary, responses to the four items related to the General Attitude toward Penn State gave these percentage agreements.

1. Excellent reputation 68%
2. Penn State degree prestige 77%
3. Graduates competing 72%
4. On par with Ivy League 36%

12. Honesty and Morals.

"I feel that the moral standards at Penn State are as high as at other Universities." 13% strongly agree, 64% agree, 18% disagree, and 5% strongly disagree. Overall agreement, 77%.

Greeks—85% of Greeks agreed, but only 74% of independents did so.

College—highest agreement, Agriculture, 83%; lowest, Home Economics, 72%.

"I believe the honor system would work extremely well at Penn State." Total response, 3% strongly agree, 17% agree, 53% disagree, and 27% strongly disagree. In other words, total disagreement was 80%.

GPA—range of disagreement was from 57% (GPA-1) to 91% (GPA-6).

"In your opinion, what proportion of the Penn State students cheat fairly regularly?"

Total—43% thought less than 20% cheated; 36% thought 20-40% cheated; 16% thought 40-60% cheated; 5% thought 60-80% cheated; and less than one per cent thought over 80 per cent cheated.

College—59% of Mineral Industries students selected the category "less than 20%" but

(Continued on page six)

PERSONNEL MATTERS

Dr. Leo H. Sommer, professor of chemistry, received the Frederick Stanley Kipping Award in Organo-Silicon Chemistry this week from the American Chemical Society. The award, which is supported by the Dow Corning Corp., consists of a citation and \$1,000. The award was presented at A.C.S. meetings at Los Angeles yesterday (Thursday). Dr. Sommer presented a paper on "Stereochemistry of Asymmetric Silicon." Last year he was awarded the John Simon Guggenheim Memorial Fellowship to conduct studies in organosilicon.

Dr. Anton J. Kovar, associate professor of botany, has been awarded a fellowship by the Organization of American States and is on leave for the Spring Term to study the ecological and paleoclimatic conditions in the Valley of Mexico. From studies of pollen in lacustrine and swamp sediments he hopes to be able to infer the type of vegetation which dominated the Valley at certain periods, and in turn to deduce the climate of these periods.

Dr. Robert K. Vierck, professor of engineering mechanics, has been granted a leave for the Spring and Fall Terms to continue work on a textbook on vibration analysis.

STUDIOS

The motion picture studio of the University Division of Instructional Services is located at 112 West College Ave. The still photography facilities of UDIS, which are in the charge of Edward Leos, are now located in Room 13, Carnegie. Telephone is UN 5-6507.

INSTITUTE

An Institute for Advanced Graduate Students in Algebra will be held June 24 to August 16. The National Science Foundation has provided \$39,765 for the program, one of three nationally in different areas of mathematics. An institute of mathematical analysis will be held at Northwestern University and one in applied mathematics at Rice Institute.

BICYCLES

All bicycles ridden on the campus must be inspected and bear a tag issued by the Campus Patrol or the Borough of State College. A new inspection period ends April 15. Inspections are made at the Campus Patrol Office in the Telephone Building. All bicycles are required to have both front and rear lights, as specified by the Pennsylvania Vehicle Code.

SCHOLARSHIP

A memorial scholarship fund has been

DPI team to study programs

A 24-man team of visitors will study the University's programs for preparing teachers for elementary and secondary schools April 10 and 11. The visit is sponsored by the Pennsylvania Department of Public Instruction.

Hosts for the visiting educators will be the University Advisory Council on Teacher Education, which includes representatives from every College and additional faculty members from the College of Education.

"We are particularly pleased to welcome our distinguished visitors at this time," says Dr. Abram W. VanderMeer, dean of the College of Education, "because the visit presents the University with an opportunity to explain all aspects of its programs for the education of teachers to a group of knowledgeable professionals and to benefit from any suggestions they may make.

"Furthermore, the Department of Public Instruction will have the opportunity to 'test-run' its visitation procedures at a large university and so perfect its guidelines for such visits which have hitherto been confined to much smaller colleges and universities."

The basic purpose of the visits is to implement a new concept in certification of teachers for Pennsylvania's schools. Heretofore, transcripts of each student's college record were scrutinized in detail in Harrisburg. Under the new "approved programs" procedure, certification would be

granted on the recommendation of the designated administrative officer of a college or university whose teacher education programs had been approved previously by the State Council on Education.

Individually, the team will confer with many faculty members and visit many facilities throughout the University. They will be concerned not only with the professional education aspect of the programs but also with the general education of the prospective teacher and with the academic programs in the major teaching fields.

Among those to visit the University will be:

Dr. Robert A. Artman, Bucknell University, physics.

Dr. Karl O. Budman, Glassboro (N.J.) State College, secondary student teaching and secondary theory and practice.

Dr. Joseph S. Butterweck, D.P.I., graduate program.

Dr. Martin P. Chworowsky, University of Pennsylvania, human relations.

Dr. Richard Dershimer, D.P.I., objectives of teacher education and research.

Dr. Jack Dinger, D.P.I., special education.

Dr. Robert D. Duncan, Slippery Rock State College, social studies.

Anne G. Eifler, D.P.I., undergraduate programs, recreation, probationary school, food service.

Dr. Albert Eiss, D.P.I., biology.

Dr. Edward L. Fleckenstein, industrial arts and vocational industrial arts.

William D. Gombar, D.P.I., English, speech, and general education.

Dr. Hugh A. Heller, Franklin and Marshall, chemistry, earth and space science.

Dr. James D. Mack, Lehigh, library.

Dr. Sheldon Madeira, D.P.I., chairman of the team.

Dr. William D. May, Johnson (Vt.) State College, faculty qualifications and facilities of teacher education.

Dr. Lawrence Park, Geneseo (N.Y.) State University College, organization and administration, and financial support.

Clio Reinwald, D.P.I., home economics.

Dr. E. Bruce Thomas, Philadelphia Museum College of Arts, art education and admissions and personnel services.

Dr. James J. Wright, West Chester State College, music education.

Dr. Frank Sills, E. Stroudsburg State College, physical and health education.

Dr. Elizabeth Newton, D.P.I., foreign language.

Dr. Charles F. Sevesta, Duquesne, mathematics.

Dr. S. Lloyd Toumey, Bloomsburg State College, business education.

established to honor the late Dr. R. Adams Dutcher and to aid deserving graduate students in the department of agricultural and biological sciences, which he served as head for 30 years until his retirement in 1951. He died April 20, 1962.

SERVICE

Alpha Phi Omega, national service fraternity, is seeking opportunities to be of service to the faculty and organizations of the campus and community. Some of its more recent projects include: conducting clothing drive for Cuban refugees; distributing canisters to stores for various charities; sorting and assembling materials for Easter Seal campaign; and ushering for Mass. The list of past projects is lengthy and varied.

CANDLELIGHT

An Easter Candlelight Dinner will be served in the Terrace Room of the Hetzel Union Building Sunday, April 14, from 5 to 6:45 p.m.

PARKING

Parking areas 1, 7, 11, 14, 20, 23, 30, 38, 40, 41, 46, 50, 61, 62, and 70, which were completely or partially closed from 2 a.m. to 6 a.m. during the winter for more efficient snow removal, are now open during those hours for parking according to the regular parking regulations.

CALENDAR

Friday, April 5

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Ekkehard K. F. Bontz, Institute of Microbiology, Rutgers University, on "The Isolation and Properties of Messenger RNA from Bacteriophage T-4."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Two motion pictures produced by Shell Oil Co. on "Approaching the Speed of Sound" and "Transonic Flight."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. C. O. Ingamells, mineral constitution laboratories, on "Analytical Problems in Earth Science."

College of Agriculture Research Seminar, 4:15 p.m., HUB Auditorium. Panel discussion on "Research and Needs of Pennsylvania Plant Industries," with P. W. Fletcher, W. I. Thomas, and L. D. Tukey.

Sunday, April 7

Chapel Service, 10:55 a.m., Schwab Auditorium. Rabbi Arthur J. Lelyveld, Fairmount Temple, Cleveland, Ohio, on "Ornamental Religion vs. Total Commitment."

University Artists Series, 8 p.m., Recreation Building. The Pittsburgh Symphony Orchestra, directed by William Steinberg.

Monday, April 8

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Donald E. Laird, Computer Center.

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. John A. Sauer, professor of physics, on "Studies of Motion in Polymers by Nuclear Magnetic Resonance."

Tuesday, April 9

Five O'Clock Theatre, 5:15 p.m., Little Theatre, Old Main, "Generation of Leaves," by Eliot Richman, directed by Christy Werner.

Penn State chapter, American Society for Metals, open meeting, 7:30 p.m., Mineral Industries Auditorium. A. M. Weisberg, Technic, Inc., on "History of Electroplating." AAUP meeting, 7:30 p.m., Room 124 Sparks.

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. H. S. Lee, on "The Study of Ionospheric Motions."

Wednesday, April 10

Song recital by LoisAnn Oakes, mezzo-soprano, 8:30 p.m., Schwab Auditorium.

Biological Sciences Lecture Series, 1 p.m., Room 112 Buckhout. Dr. Gordon L. Bender, Arizona State University, on "Physiological Ecology of Desert Arthropods."

Engineering Graphics seminar, 7 p.m., Room 121 Sparks. Charles S. Knox, chief development engineer, Allis Chalmers Co., on "A New Look at Engineering Graphics."

Thursday, April 11

Mathematics Colloquium, 4 p.m., Room 109 Osmond. Dr. G. T. Whyburn, University of Virginia, on analytical topology.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Robert Plane, Cornell University, on "Some Aspects of the Chemistry of Complex Ions."

Friday, April 12

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium.

ITEMS OF INTEREST

Elected and Appointed

SCHWETZER, P. H., engineering research emeritus, named editorial advisor to the monthly publication, "Internal Combustion Engine."

SMITH, H. A., secondary education, named president-elect, Association for the Education of Teachers in Science.

Articles and Papers

CARZO, ROCCO, JR., management, "Some Effects of Organization Structure on Group Effectiveness," in the March issue of "Administrative Science Quarterly."

CASIDA, L. E., JR., bacteriology, with CONSIDINE, R. G., "Antibiotic Production by Actinomycetes under Conditions of Minimal Nitrogen Nutrition," at the Pittsburgh meeting of the Allegheny Section, American Society of Microbiology.

DUQUET, R. T., meteorology, "The Derivation of Extreme Value Statistics from NE-Climatological Data," at the fifth National Conference on Agricultural Meteorology at Lakeland, Fla.

FLETCHER, P. W., forestry, with H. W. LULL, "Soil Moisture Depletion by a Hardwood Forest during Drought Years," as a bulletin of the Missouri Agricultural Experiment Station.

HAMILTON, R. H., botany, "Isolation, Characterization and the Role of Cyclic Hydroxamate in Metabolism of 2-chloro-1-triazene Herbicides," at the 14th American Chemical Society meeting in Los Angeles.

KLAUS, E. E., petroleum chemistry, a description of research in the Petroleum Refining Laboratory at the American Chemical Society meeting in Los Angeles.

KOCHER, FRANK, mathematics, "Addition," a seminar for gifted high school students at Abington Senior High School, April 18.

LINDSTROM, E. S., bacteriology, with J. C. MCNEIRNEY, "The Effects of Gamma Irradiation on Photooxidase Activity of Chromatophores of Rhodospirillum Rubrum," at the meeting April 6 of American Society of Microbiology, Allegheny Section.

LUDWIG, E. H., bacteriology, with F. D. ZEIGLER, "Respiration and Phosphorylation in Mouse Brain Infected with GD7 Virus," at the American Society of Microbiology meeting April 6.

LUMLEY, J. L., aeronautical engineering, Water Tunnel, "Passage of a Turbulent Stream Through Honeycomb of Large Length-to-Diameter Ratio," at the ASME 1963 Aviation and Space, Hydraulic, and Gas Turbine Conference in Los Angeles, March 3-7.

SKUBRZYK, E. J., engineering research, "The Physical Aspects of Flow Noise," at a NATO Advisory Group for Aeronautical Research and Development meeting at Rhode-Saint-Genese, Belgium, April 1-5.

Lectures and Talks

BRITTON, J. H., child development and family relationships, "Social and Community Aspects of Aging," at an Iowa State Conference on Aging, April 20.

CHENG, T. H., zoology, "Science in Communist China," at Ohio University College of Arts and Sciences and "Research on Insect Control" at a botany-zoology seminar, April 11-12.

FERRARA, W. L., accounting, "The Accounting Function and Cost Control," before the Northern New York Chapter, National Association of Accountants.

HELMAN, ARTHUR, Reading Center, "Teaching the Study-Reading Skills at the Elementary Level," at Lehigh University Reading Conference, March 30.

JORDAN, JOSEPH, chemistry, "Chemistry of Molten Salts," at Brooklyn Polytechnic Institute and at Graduate Center at Stony Brook, Long Island.

LEHMOON, L. W., psychology, "The Contribution of Psychology to Our Future Automated Technology," at Lexington, Va., as part of American Psychological Association Visiting Scientist Program.

DE LISSOVO, VLADIMIR, child development and family relationships, "Childhood, Luxury or Critical Period," before a conference of the Southern Association on Children under Six," at the University of North Carolina, April 3-5.

NEUBERGER, HANS, meteorology, and SCHEIN, R. D., plant pathology, on television program over WNDT-TV, New York, on the subject of biometeorology.

PALLADINO, N. J., nuclear engineering, "Preparing for a Nuclear Career: What Universities and Colleges Offer" at the Nuclear Education Day, Mellon Institute, Pittsburgh, March 23.

PANOFKY, H. A., meteorology, "Recent Research on the Turbulence of the Surface Layer of the Atmosphere," at Headquarters, U. S. Weather Bureau.

"Satellite Meteorology," at George Washington University and at Lehigh University, Sigma Xi banquet.

"Structure of Atmospheric Turbulence," at Lehigh University.

"Effect of Change of Roughness on Wind Profile," before the American Meteorological Society.

PELTON, W. C., Security, "South of Dien Ben Phu," before the Kiwanis Club of Altoona, March 6.

WARIK, THOMAS, chemistry, "Some New Departures in Organo-Metallic Chemistry" before the Lehigh Valley section of the American Chemical Society.

WEINTRAUB, STANLEY, English, interview on his book, "Private Shaw and Public Shaw," on radio station WNYC, New York.

—lecture on his book at University of Pittsburgh Book Center.

—on program, "Kup's Show," on midwest ABC television in Chicago.

WENTZ, R. E., U.C.A., "Splart! Theology," in the March 27 issue of The Christian Century.

WILLIAMS, ARTHUR, insurance, "Problems in Transition," before the Moshannon Valley Association of Life Underwriters at Philipsburg.

YOUNG, J. D., Ordnance Research Laboratory, with LEHMAN, A. F., "Incipient and Desinent Cavitation," at the 1963 ASME Aviation and Space, Hydraulic, and Gas Turbine Conference in Los Angeles, March 3-7.

Student Attitude Survey

This is the second of seven articles on Penn State student attitudes as revealed in a survey conducted by the Student Affairs Research office last spring. Principal investigators were Mrs. Gloria Bernheim and Mrs. Dolly Henderson.

THE FIRST section (See Faculty Bulletin, March 22) of the report on the Student Attitude Survey conducted by the University's Office of Student Affairs Research, dealt with attitudes concerning Education in General. This section is concerned with a number of aspects of the student's attitudes toward Penn State in particular—especially on such subjects as the general atmosphere, tuition, moral standards, general reputation, quality of education provided, problems facing the University, and the reasons for attending Penn State.

1. Why Penn State?

The student was asked why he thinks most students come to Penn State, his own primary reason for coming to Penn State, and his second reason. Responses are shown in the table below by percentages, A indicating the reason the respondent thinks most students come here, and B and C indicating his first and second choice reasons for coming:

	Per cent		
	A	B	C
1. could not afford any better	11	13	14
2. wanted a well-rounded liberal education	13	17	23
3. did not want to go too far from home	6	5	17
4. just wanted to have a good time away from home	5	1	4
5. did not have much choice because of tight college admissions	11	7	6
6. did not really have a specific reason but just fell into it	29	14	12
7. wanted to acquire technical knowledge and skills for a career	25	43	24

As was true of all questions, the data were analyzed not only by total response of all those questioned but also by the variables Year, Grade Point Average (GPA), College, Sex, and Greek-or Non-Greek status. In many cases there was little or no variation from Total Response, so only those variables for which significant variation from Total Response occurred are listed.

Total—It is obvious students do not completely view themselves and other students in the same light, since Columns A and B are not alike. Many more rated No. 7 first for themselves than they did for "Others" and rated No. 6 (fell into it) much lower for themselves than for "Others." No. 2 proved a good second choice when selecting for themselves, but a relatively poor third choice for "Others."

GPA—The higher the GPA, the higher the percentage selecting No. 6 as the choice of "Others," ranging from 26% for GPA-3 and 4 to 40% for GPA-6. Also, the higher the GPA, the lower the rating for No. 7 (range 27% for GPA-1 to 14% for GPA-6).

For themselves, No. 7 remained the

first choice across all GPAs. However, students in GPA-1 rated No. 1 (could not afford any better) as second choice. In other GPA groups, other alternatives were made the second choice.

Sex—Women students selected alternative No. 2 as their second choice for "Others," 18% checking this reason. For themselves, women students gave No. 7 (technical knowledge) only 27% (men 51%) but gave No. 2 (liberal education) 31% (men 11%).

College—Home Economics students gave No. 2 (liberal education) as first choice for others. Liberal Arts students gave first choice to No. 2 (36%) for themselves; otherwise first choice was No. 7, for which the percentages varied from 21% (for Liberal Arts) to 78% (for Mineral Industries) Nos. 2 and 7 also received the greatest response for second choice.

2. Who are enrolled?

"Penn State's admission procedures permit . . ." was the opening to three statements from which the respondent was to select one: (1) only the very bright students to enroll; (2) almost anyone to enroll; and (3) mediocre as well as bright students to enroll.

Total response was overwhelmingly for No. 3 (84%); No. 1 was selected by 9% and No. 2 by 7%.

GPA—None of the GPA-6 students selected No. 1 while 22% of the GPA-1 did so. Response for No. 3 varied from 65% to 91%.

3. Present attitude toward college education

Related to the above question was the item, "I have more respect for college education now than before coming," the choices being strongly agree, agree, disagree, or strongly disagree. The percentage responses were respectively 29%, 46%, 22%, and 3%.

GPA—Total agreement varied from 56% for GPA-6 to 78% for GPA-1. Other variables—variations from total response were not major.

4. Life at Penn State

Respondents were asked to rate by A, B, and C the three most important aspects of life at Penn State from a list of seven items. The items with

the percentages of Total Response are indicated:

	Per cent		
	A	B	C
1. academic activities such as classes, lectures, and exams	81.4	10	5
2. religious activities	0.2	5	7
3. informal, interpersonal relations with faculty	0.7	6	8
4. cultural activities such as plays, concerts, art exhibits	1.5	10	16
5. casual, interpersonal relations with small groups of students	11.0	38	23
6. non-organized social activities such as movies and informal parties	0.6	8	23
7. organized social activities sponsored by student organizations	4.6	23	18

Total—Academic Activities was the overwhelming choice of the respondents and it was maintained as first choice across all variables.

GPA—None of the GPA-6 students ranked No. 5 (casual small group relationships) in A category, but 22% of GPA-1 did.

College—72% of Home Economics students selected No. 1 as first choice, 94% of Engineers did so.

Sex—85% of the men chose No. 1 as first choice, but only 74% of the women.

Overall, religious activities received the lowest rating of all, with less than 0.2% of first choice, 5% of second choice, and 7% of third choice.

5. Wasted Time

In response to the statement, "In general, I feel that most of my time spent here has been wasted," only 7% of the total sample agreed, 93% disagreed. There was little variation from this agreement across the several variables. DOC students, more than those of any college, indicated wasted time (13%) and the other extreme was Physical Education whose students were in complete agreement that their time was not wasted.

6. Penn State meets needs.

Previous questions have indicated that the student's reasons for coming to Penn State were work oriented (to gain technical knowledge or a broad liberal education) and that academic activities were their main interest. How well is Penn State meeting these needs?

"Penn State is doing a very good job in fulfilling educational goals I consider important," was a statement to which the students were asked to express their agreement or disagreement.

Total—8% strongly agreed, 61% agreed, 27% disagreed, and 4% strongly disagreed.

GPA—Disagreement in GPA-6 (highest average) was double (44%) that of GPA 1 (22%). However, answers to the previous question on "wasting time" indicated that students in GPA-6 felt more strongly their time had not been wasted.

(Continued on page five)

Survey—

(Continued from page five)

only 24% of Physical Education students did so (the two extremes). Choice No. 2 (20-40%) ranged from 32% to 42%.

Sex—Men placed heavier emphasis on Category 1 than did women (16 per cent more); women selected Category 3 more than men (24% to 11%). It may suggest that women students have more doubts about their fellow students than men.

"Most college students would cheat on an examination if they were sure of not being caught."

Total—9% strongly agree; 41% agree; 46% disagree, and 4% strongly disagree. Obviously the students are split in their opinions of others.

GPA—agreement ranged from 61% for GPA-1 (lowest average) to 33% for GPA-6.

College—Agreement varied only slightly, from 44% by Engineering students to 59% by Agriculture students.

SUMMARY

Generally the students in the higher classification of Grade Point Average are less satisfied than those in the lower groups, as indicated by such items as: "Penn State is doing a good job . . ."; "My time is wasted here"; "Penn State . . . serving the State too much"; and ". . . Progressive school."

There is a second pattern that indicates students in the more technically oriented schools, for example Agriculture and Home Economics, are the more satisfied, the Liberal Arts students the least so. Women are somewhat less satisfied than men.

Why attend Penn State? When students answered for others, they thought "just fell into it" was the reason. For themselves, "technical knowledge" and "liberal education" were more frequent reasons.

Although there is more respect for college education now than before the students came here, they feel Penn State permits the enrollment of mediocre as well as bright students.

Academic affairs are overwhelmingly the most important aspects of life at Penn State. Second and third choices are "casual, interpersonal relationships with small groups" and "non-organized activities."

Penn State's problems consist of "inadequate funds" (first choice), "poor administration" (second choice), and "not enough professors" (third choice). The first choice was further verified by the 83% disagreement with the statement that "Penn State receives adequate support from the State."

Although tuition is high or far too high (total of 78%), more than half of the students agree that if the State doesn't support the University enough, a tuition increase is necessary.

In three questions, the students feel Penn State stands high (excellent reputation, degree carries prestige, graduates can compete) but they don't think it compares academically with Ivy League schools.

There is considerable skepticism concerning the honor system, since only 20% thought it "would work extremely well" but 43% said they thought fewer than 20% of the students cheated so the emphasis may be on the word "extremely."

And, although half the students thought most college students would cheat on an exam if they were sure of not being caught, more than three-fourths agree that moral standards are as high as at other universities.

Arts—

(Continued from page one)

She is a graduate of the American Academy of Dramatic Arts and holds a master's degree from Yale University. She developed an interest in the study of music literature while teaching at Ohio State University. She has studied also at the Aspen (Colo.) opera, under the late Mack Harrell, and with the Hunter College Opera Workshop.

Miss Oakes's program will consist of a cycle of songs by early composers, works by Claude Debussy and Gabriel Faure, songs by several composers on poems by Carl Sandburg, and a cycle by Franz Schubert.

There will be no tickets or admission charge.

Elected

Dr. Edward L. Mattil, head of the department of art education, has been elected president of the National Art Education Association, succeeding Ruth Halvorsen, of Portland, Ore.

Dr. Mattil has served for the past two years as vice-president of the association and has been active in it for many years. He has been a member of the faculty since 1953.

Aquacade

The annual aquacade presented by "Naiads," synchronized swimming club of Women's Recreation Association, will be held April 18, 19, and 20 at 8 p.m. in the White Hall pool.

Theme of this year's show is "America in Pursuit of Happiness," with numbers titled, "Primitive Moods," "Rebel with a Cause" and "Education Takes a Break."

faculty BULLETIN

Vol. 50, No. 36 April 5, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MISS MILDRED AILMAN
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Decision making

Emery Bacon, educational director of the United Steelworkers of America, and Dr. F. Bruce Morgan, department of philosophy and religion, Amherst College, will be the principal speakers at an invitational conference in economics Saturday, April 20, beginning at 10 a.m. in the Nittany Lion Inn.

The conference, made possible by a Danforth Foundation grant, is expected to be attended by about 30 members of the faculties of the departments of economics, sociology, and political science. Any other faculty members especially interested may call the University Christian Association office (5-7627) for further information.

Titled "The Public Interest and Individual Economic Decision-Making," the conference will conclude with a panel discussion at 2:30 p.m., with Bacon, Dr. Morgan, and two members of the faculty as panelists.

Three honored

The late Dean Harry P. Hammond, Leland S. Rhodes, and Robert E. Minshall have been honored by Chi Epsilon fraternity, national honor group in civil engineering, with the placing of their names in the Commemoration Section of the Chi Epsilon Book now in the new United Engineering Center on the United Nations Plaza in New York.

Dr. Hammond was dean of the College of Engineering from 1937 to 1951; Rhodes was a member of the civil engineering faculty from 1919 to 1955; and Minshall taught civil engineering from 1913 to 1953.

Justice Douglas Speaks April 19

"Democracy vs. Communism in Asia" will be the subject of the address by Justice William O. Douglas Friday, April 19, at 8:30 p.m. in Schwab Auditorium.

Tickets, at \$1.50, will go on sale to the public Wednesday, April 17.

Mr. Douglas has been associate justice of the U. S. Supreme Court since 1939. He was graduated from Whitman College, Walla Walla, Wash., in 1920 and was a high school instructor in Yakima for two years. He was admitted to the New York bar in 1926 after receiving a bachelor of laws degree from Columbia University and practiced law in New York from 1925-27, was a member of the Columbia University law faculty 1925-27, taught at Yale, 1928-34, made bankruptcy studies at Yale Institute of Human Relations and for the U.S. Dept. of Commerce 1929-32, was director of the protective committee study of the Securities and Exchange Commission 1934-36, and was commissioner and chairman 1936-39.

Justice Douglas is author of various law case books and of other books, including "Of Men and Mountains..."; "Exploring the Himalayas"; and "My Wilderness: East to Katahdin."

Ackerman speaker

Dr. Edward Augustus Ackerman, executive officer, Carnegie Institution of Washington, and one of the nation's leading geographers, will present the next address in the Graduate Lecture Series Tuesday, April 16, at 8 p.m. in Room 121 Sparks.

His subject will be "The Armed and Disarmed World." The department of geography is co-sponsor.

Dr. Ackerman will present a com-



Dr. E. A. Ackerman

parative analysis of the present armed world with one in which disarmament has been reached, discussed in the terms of and with the point of view of political geography.

After being granted three degrees by Harvard University, he became instructor in geography. In 1918 he was named professor of geography at the University of Chicago, and in 1954 became director of the Water Resources Program, Resources for the Future, Inc., a post he held until 1958 when he joined the Carnegie Institution as deputy executive director.

In 1950-51, Dr. Ackerman was chairman of the Committee on River Program Analysis of the President's Water Resources Policy Commission, and 1951-52 chief of the Resources and Civil Works Branch, U. S. Bureau of the Budget. He was assistant general manager of the Tennessee Valley Authority from 1952 to 1954. In 1957 he was consultant to the Advisory Committee on Weather Control and in 1959 consultant to the Select Committee on National Water Resources of the U. S. Senate.

Faculty Luncheon Club

William H. Neely, executive director of the Penn State Foundation, will speak on the functions of the Foundation at the regular Faculty Luncheon Club meeting, Monday, April 15, at 12:30 p.m. in HUB dining room "A".

Language Exams

The regular experimental written foreign language examinations will be held according to the following schedule: Monday, April 22, 7 to 9 p.m., German in Room 112 Chambers, and French in Room 10 Sparks. The regular English examination will be held Monday, April 22, at 7 p.m. in Room 218 Sparks. The regular Spanish and Italian examinations will be given Tuesday, April 23, at 7 p.m. in Room 17 Sparks.

A regular reading-translation exam in French for those who fail the experimental test will be given May 14 at 7 p.m. in Room 203 Willard. The regular German exam will be held May 13 at 7 p.m. in Room 113 Chambers.

Alumni Fund

A total of 4,344 contributors have given \$155,188.62 to the 1963 Alumni Fund, as of April 5.

Teaching Awards

Twelve graduate student teaching assistants in physics have been chosen to receive General Atomic Teaching Assistant Awards, which were made possible by a grant from the General Atomic Division of the General Dynamics Corp. as a means to further improvement of college teaching by graduate students. Each award is for \$150.

SENATE MINUTES

MEETING OF APRIL 2, 1963

The University Senate met at 3:55 p.m. on Tuesday, April 2, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the March 5, 1963 meeting were approved as printed in the Faculty Bulletin for March 15, 1963. One hundred sixty senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. P. Campbell (R. B. Patrick), R. G. Cunningham (R. D. Fellows), E. P. Hexner (P. A. Klein), M. W. Isenberg (L. A. Richardson), D. R. McClay (Frank Anthony), F. W. Peikert (M. D. Shaw), W. H. Powers (K. V. Manning), E. R. Queer (E. C. Shuman), J. J. Reid (R. L. Maginnis), E. B. Richie (W. R. Geelan), B. E. Voss (A. V. Kozak), and W. P. Winter (C. A. Ellsworth).

New Senator

A letter was received from Jules Heller stating that S. A. Sabeau would serve as acting head of the Department of Architecture while P. F. Hallock is acting as faculty adviser for the Architectural Team Abroad in London.

A letter was read from D. V. Josephson, Chairman of the Senate Committee on Committees, that R. H. Waters would replace G. M. Torkelson and R. G. Cunningham would replace M. W. Isenberg on the Senate Committee on Faculty Affairs; that H. E. Nelson would replace V. V. Aspaturian on the Senate Committee on Scholarships and Awards; and that Nancy Lee Grace would replace Barbara Baer on the Subcommittee on Academic Honesty on the Senate Committee on Student Affairs. These appoint-

ments had had the approval of President Walker.

The following letter from J. R. Rackley was read:

Recently in reviewing various University committee memberships, it came to my attention that the Standing Committee on Tenure is incomplete at the present time. Dr. Wallace Brewster, one of the elected members of the Senate, is away on leave and Dr. Russell Larson, who had served on the committee as chairman, has been appointed as an administration representative, thus leaving the chairmanship vacant.

It would be appreciated, therefore, if you will call to the attention of the Senate the necessity of electing a replacement for Dr. Brewster and the further necessity of the two elected members of the Senate and the two administrative representatives meeting together and selecting a fifth member to be the chairman of the committee. It is suggested that the chairman of the Committee on Faculty Affairs preside at a meeting of the elected members of the Senate to choose a replacement for Dr. Brewster. Other members of the committee at present are Professor A. H. Reede, College of Business Administration, elected member; Professor Francis Hall, College of Engineering, administrative representative; Dr. Russell Larson, College of Agriculture, administrative representative.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of the proposals in Items 1A and 1B. The motion was seconded and passed. Item II is for the information of the Senate.

The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker stated that Article II, Section 4 of the By-Laws limits the time a member may serve as chairman of a standing committee. This sometimes creates a hardship especially in the case of the Senate Committee on Athletics where the chairman of the committee is a representative of Penn State on the National Collegiate Athletic Association. He asked the Senate Committee on Committees to consider the need for a change in the fixed term of chairmanship and to report to the Senate whether this matter should be studied further by other committees of the Senate.

The President discussed the Governor's budget message.

The ex officio members of the Senate were excused at 4:20 p.m.

The elected members remained to elect a replacement for R. W. Brewster on the Tenure Committee. (Secretary's note: The meeting to elect replacements on the Tenure Committee was held under the chairmanship of N. C. Pandered, Chairman of the Senate Committee on Faculty Affairs. At the meeting a motion was made, seconded, and passed that the election of a senator to the Committee on Tenure be postponed until another meeting of the elected senators to be held following the May meeting of the Senate.)

The next regular meeting of the Senate will be on May 7, 1963; the agenda will be distributed on April 23, 1963.

The Colleges are reminded that the names of the elected senators are to be submitted IN WRITING to the secretary before the May 7 meeting.

Robert G. Bernreuter
Secretary

The Arts

Alard quartet

The Alard String Quartet, which recently completed a short concert tour in Ohio and New York, will play Tuesday, April 16, at 8:30 p.m. in Schwab Auditorium.

Included in the program are Haydn's Quartet in C Major, Opus 76, No. 3; Schubert's Quartet in G Major, Opus 161; and William Bergsma's Quartet No. 3.

The concert tour included performances at Edinboro (Pa.) State College; Wilmington (Ohio) College; the Chamber Music Society of Albany, N. Y.; and Potsdam (N.Y.) State University.

Members of the Quartet are Joanne Zagst and Donald Hopkins, violinists, Raymond Page, violist, and Leonard Feldman, cellist.

Stevens lecture

Denis Stevens, distinguished visiting professor of music, will present the fourth in the series of five lectures on music Wednesday, April 24, at 8 p.m. in Little Theatre in Old Main. The lecture is on "Church Music in Medieval Spain."

Chapel choir

The University Chapel Choir of more than a hundred voices and directed by Mrs. Willa Taylor and James W. Beach, will sing Randall Thompson's "The Peaceable Kingdom" at Chapel Service Sunday, at 10:55 a.m., in Schwab Auditorium.

The program is a repeat of the performance given March 10. The Thompson work is a sequence of eight choruses and was suggested by a painting by Edward Hicks (1780-1819), who was known as the preaching Quaker of Pennsylvania. The texts are from the book of Isaiah.

Blue band

James Pellerite, one of the prominent flutists in concert work, will be guest soloist with the Penn State Blue Band in its concert Sunday, April 21, at 3 p.m. in Schwab Auditorium. James W. Dunlop conducts the Band.

Pellerite, a native of Clearfield, was formerly principal flutist with the Philadelphia Orchestra. He has performed as soloist with symphony orchestras in Philadelphia, Detroit, Indianapolis, Chautauqua, and with "L'Orchestra Sinfonica de Puerto Rico, conducted by Pablo Casals. He is now a member of the faculty of Indiana University.

Folk singer

The two concerts in the Artists Series to be presented by Joan Baez, folk singer, will be held Friday, April 26, at 7:30 p.m. and 9:15 p.m. Previously, she was scheduled to give a concert on April 25. Ticket sales will begin April 24.

sions. People may change their view of themselves, change their objectives, or seek frank discussions with others and discover they are liked and respected despite their shortcomings. Unfortunately, not all attempts to overcome difficulties are so constructive. Cheating on examinations, lying, or stealing examinations, or any other means by which obstruction of the pursuit of the College Degree can be avoided, will be tried by anxious, resentful students. They may complain, criticize, and derogate others excessively. They may reject and rebel against their parents, thereby attempting to destroy a discomforting relationship. Many similar examples could be cited.

When people are learning as a means of reducing tensions based in anxiety or resentment, rather than being tense because they are working hard to learn, increasing evidence suggests they are learning unsatisfactorily. Conditions which cause students to attempt to learn to avoid the feared consequences of failure, loss of self-esteem and the respect of others, and relegation to the unacceptable role of technician or laborer (rather than becoming one of the "college educated") should be eradicated whenever possible.

PART II—IMPLICATIONS AT PENN STATE

Your committee, individually and as a group, discussed the subject of tensions with many students, faculty, and administrators and made a special point of talking with University staff whom upset students are most likely to consult.

Based on their opinions, we unanimously agree that there are tensions on the campus—but not to an alarming degree. Although the number of psychiatric cases at the Health Center has mounted markedly during the past four years (girls account for much more of the growth than do boys), it should be remembered that people are more willing to talk about their mental problems now than in the past; and at PSU we encourage students to ask for help. It may be in consequence of this that figures compiled by Professor Clifford Adams show that our suicide rate has been "extremely low."

The students now admitted to Penn State, coming mainly from the first two-fifths of their high schools, are closer in ability to each other than formerly. The intensified drive for excellence in this more competitive situation is a major cause of tensions.

The term system, basically because it required people to change habits, caused some increase in tensions at the time it was introduced—but professors and students are gradually adjusting and probably will continue to do so. Students who have entered Penn State since the term system began are adjusting to it better than those who were on the campus under the old system. Most of the factors listed below as contributing to tensions existed before the term system started.

Granting that student tensions at PSU are not at an alarming level, there are conditions that mildly create and maintain tensions which the University can and should change in situations which are about,

Briefly, and roughly

We wish to discuss some of these conditions under the following seven headings:

I. *Students need full opportunity to plan their work.*

A. In planning their programs, some students require periodic help from their advisors. Advising in the University seems to be spotty. Many advisors are doing an excellent job, but in some cases frustrated students complain that advisors not only are difficult to find but also show little interest in their advisees' problems.

Advisors allow too many students to take too many credits (one member of your committee dissents on this point). Bernreuter reported that sixty percent of our students will meet graduation requirements in eleven terms.

B. A student in a course needs a clear definition of the tasks required so that he can make plans to accomplish them in the time available. The student needs from the professor an explanation of the objectives of the course together with a list of the assignments for the entire term. He should not be confronted part way through the term with substantial additional assignments. The small minority of the faculty who do not provide advance information or who announce additional assignments midway through the term are causing a disproportionate number of anxiety cases.

Recommendations:

1. *The advising system needs attention. (We understand a Dean's committee is now studying this problem). Advisors should be urged to hold students to reasonable schedules.*
2. *Instructors should provide students at the beginning with course outlines and reading lists.*

II. *Students need adequate resources to carry out academic assignments.*

A. Students rather frequently waste valuable time and nervous energy in trying to obtain assigned reading material at the library. The available copies of a volume sometimes are far too few to serve adequately the needs of all the members of a class who have been asked to read it. Both instructors and the library can help to alleviate this situation by trying to make certain that sufficient copies are available.

B. Students also need places in which to study. In response to requests for more study space, the Engineering College, for example, has made classrooms available in the evenings; but they have been used only a little, perhaps because they are remote from most residence halls.

The University of Indiana reports success with their plan which reserves at least one dining room in each center (1200 students) as a proctored study hall; and each center has a library containing "basic reference books, supplementary reading materials for classes, reserve books for basic courses," etc.

Recommendations:

1. *Instructors and the library should work closely together to assure sufficient copies of assigned reading material.*
2. *Set up on an experimental basis in one dining hall a proctored study hall.*
3. *Continue efforts to install and enlarge libraries in various residence halls.*

III. *Students need feed-back.*

A. A student needs to know periodically how he is doing in a course. Although it was an isolated case, the professor who gave no quizzes or examinations until the end of the seventh or eighth week was encouraging tensions.

Moreover, an instructor should return examinations, papers, themes, etc., promptly with explanations of what is unsatisfactory. No news stimulates tensions.

Recommendations:

1. *Department should encourage instructors to provide periodic, prompt, and adequate feed-back to students.*

IV. *Students need a fair and clearly understood evaluating procedure.*

A. Faculty and administration should do what they can to disabuse students and parents of the belief that a grade of C in a course is almost a disgrace. Since eighty-six percent of our students come from the top two-fifths of their high school classes, they are accustomed to receiving A's and B's. They come to Penn State with set ideas about themselves and their abilities and they find it hard to adjust their habits of self-evaluation. The expectations of parents are frequently so high that they place undue pressures on their sons and daughters.

It is most difficult for the University to deal with this matter, since we must be careful not to get in the position of saying to students and parents that "a C will do." But an entering student should be informed from the start that about half of the grades at Penn State are C or lower. We also suggest that when a student's grades are sent home, parents should be informed of the University's grade distribution and of the significance of the different grades. Parents and students need to know that the average student now at Penn State is very capable.

(We realize of course that an increasing number of students are contemplating graduate work and are therefore straining to obtain marks high enough to be acceptable for admission to a graduate school.)

B. We have heard of a considerable number of cases where students have tended to be overwhelmed in the last week of the term. As it stands now the University seems to be crowding so many things into final six days that we are inviting up high student tensions. Within this one students are taking a majority of their examinations, attending their regular class meeting deadlines for written course requirements and in a few instances even attending final make-up or review sessions conducted by professors.

We do not believe that all of these should be scheduled simultaneously. Assume that suggested solutions for this problem are more the province of the committee studying the term system than they are of our committee.

C. A student taking three, or perhaps four, courses requiring term papers has a most difficult job to produce quality writing under severe deadlines. This problem is particularly acute in graduate seminars, for solid seminar papers in two or three separate courses can scarcely be done in ten

(Continued on page five)

Tensions—

(Continued from page four)

weeks. It is important that advisors take time to work out combinations of courses for advisees that give them a reasonable balance between laboratory work, reading, and paper writing.

Recommendations:

1. A brochure should be prepared explaining for the benefit of students and parents the grading system and the distribution of grades.
2. Advisors should see as far as possible that students' programs are reasonably balanced.

V. Arrangement of a student's personal life.

A. A student should be able to use his room as a place of study. Two situations have come to our attention which may make this difficult:

1. We keep hearing, from a good many sources, of excessive noise in some of the residence halls. It appears that students too often are unable to use their rooms as effective places in which to study. We have not, as a committee, gone to the halls to confirm these allegations, but we hear them so much that we suggest asking the Dean of Men and Dean of Women to re-examine the situation with the object of lessening such distractions where they exist.

2. Students living together in one room may be interested in such widely differing fields that the study requirements of one may interfere with those of the other. To discourage interruptions in study we propose that the University try placing students of one discipline together in the same room or floor or part of a floor. Students from one field, however, should not fill an entire residence hall.

B. A large number of students reported to the Health Center this fall because of a feeling of extreme fatigue. The staff of the Center feels strongly that extracurricular and social activities are major contributors to this fatigue, which in turn contributes to increased tension.

There are many examples of students trying to do everything in ten weeks that they formerly did in fifteen. Theater productions, intramural sports, Hort Shows, Spring Weeks, etc., are keeping students up until late at night. Students sometimes fail to realize that they cannot pile all of these on top of the hard academic work. Something must give way.

We recognize the value of a student's engaging in a reasonable number of extracurricular activities. Activities like the Hort Show probably can be justified because of their relationship to academic work. But loss of sleep and cutting of classes by participants in Spring Week, for example, are much more difficult to justify.

Although fraternities have been making laudable efforts to curtail hazing, there is no question that fraternities and sororities, both at pledging and initiating times, cause loss of sleep, class-cutting, and resulting tensions.

We also submit that a tough ten-game football schedule is incompatible with a

ten-week term. Someone should carefully re-evaluate intercollegiate athletic schedules.

We believe that all student organizations and their advisors and sponsors should re-assess extracurricular and social activities to see where they can be adapted to the term system and to curtail the less significant and less beneficial ones.

Recommendations:

1. The Dean of Men and Dean of Women should re-examine the noise conditions in residence halls.
2. The University should experiment with placing students of one discipline or of one College together in one room or in sections of residence halls.
3. Someone (perhaps the Senate Committee on Athletics) should re-evaluate intercollegiate athletic schedules.
4. Student organizations and their advisors and sponsors should re-assess the time and energy requirements of extracurricular activities.

VI. Graduate Students.

As was suggested in section IV-C a ten-week term may be unsuitable for some 500-type graduate seminars. It appears that in some instances the demands of such courses cannot be met within the term system. The suggestion has come from several sources that a seminar could be extended over a period longer than one term; but when this solution is attempted, complications over the allotment of credits immediately arise.

In discussing this problem your committee has come to agreement that it is unrealistic to chop up graduate work into the customary three-credit chunks. We wonder if there is any compelling reason why we must have credits. We recommend, therefore, that some group give serious study to the desirability and practicability of abolishing the credit system in graduate work.

Recommendation:

1. A committee of the Graduate School should study the possibility of eliminating the credit system at the graduate level.

VII. Tone of the Campus Dialogue

Patterns of discourse become established and not only express attitudes but also create them. Frustrations, anxieties, and disappointments are normal and to be expected. However, every effort should be made to discourage habitual complaining (whether by administration about faculty, by faculty about administration, by students about faculty, or by faculty about students). In the view of your committee, it appears that the note of complaint is characterized, if not actually caused, by such factors as, for example: faulty communication between staff and administration; a tendency persistently to urge improvements upon one another and to criticize failures of achievement; a tendency by some faculty members to disparage the quality of performance of the students; and a tendency by some students to allege that they are neither understood nor appreciated by the administration or faculty. Once again, we would say, as we have in other connections, that a certain degree of dissatisfaction is healthful and indeed inevitable. We do think, however, that special attention needs to be directed to devising means of injecting a more com-

radely and comfortable tone into the campus dialogue. Our self-criticisms and attempts to improve should be within a context of explicit recognition of what has been and is being achieved.

Recommendations:

1. That faculty rewards (including promotions and salary increases) clearly derive from the declared criteria of general excellence, meaning good teaching and advising and academic service, as well as research and publication.
2. That once a year the President hold a breakfast meeting with faculty members, exclusive of administrators and Senators, at which time he will entertain questions and comments reflecting their problems and interests.
3. That consideration be given to holding another Department Heads' weekend meeting, such as that at Bedford Springs, primarily designed not to explore weaknesses but to celebrate achievements and to discuss ways of improving the morale of staff and students.
4. That such meetings as the Senate breakfast, the annual address by the President to the general faculty, the trustees-faculty dinner, and other occasions on which staff and administration may meet in rather informal discussions should be continued and perhaps expanded.

To go further into the problems noted above would require data which can be obtained only as a result of elaborate research. We feel, meanwhile, that a continuing existence of a committee on tensions would contribute to causing tensions.

Europe lecture

Dr. Samuel L. Sharp, specialist in Eastern European affairs and a member of the faculty at The American University in Washington, D. C., will give a special lecture, sponsored by the department of political science, Monday, April 15, at 8 p.m. in Room 110 Electrical Engineering.

The title of his lecture will be, "Ideological Diversity in Eastern Europe and Its Impact on the Soviet Union."

Native of Poland, Dr. Sharp did his principal study at Warsaw University, receiving the doctor of jurisprudence degree in 1932. He is now an American citizen and served in the U. S. Army 1943-46. He has been at American University since 1950.

He is the author of "Nationalization of Key Industries in Eastern Europe"; "New Constitutions in the Soviet Sphere"; and "Poland, White Eagle on a Red Field."

Dr. Sharp will be visiting professor of political science during summer term, teaching a course in Soviet Foreign policy and its impact on Soviet and Eastern European movements.

Report of Committee on Tensions

The following is the complete report of the committee appointed by President Walker to study tensions among students. The Committee was composed of Dr. D. H. Ford, Dr. H. R. Glenn, Philip B. Lovett, Dr. R. T. Oliver, and Dr. M. N. McGeary, chairman.

PART I—A FRAME OF REFERENCE FOR CONSIDERING HUMAN TENSIONS

THE CONCEPT OF TENSIONS

The term tensions is used to refer to a variety of different kinds of behavior. Disagreement about whether tensions exist could arise from differing emphases on the following factors.

1. *Physical symptoms: restlessness, sleeplessness, gastrointestinal distress, headaches, fatigue, muscle cramps, and the like.*
2. *Emotional arousals: usually some variation of anxiety, fear, guilt, resentment, or anger.*
3. *Verbal expressions: e.g., fearful anticipation of undesirable consequences, such as failure; excessive self-derogation or criticism of others; statements about feeling helpless, guilty, or resentful.*
4. *Socially disapproved behavior: excessive drinking, sexual involvements, withdrawal from responsibilities or social relationships, stealing, destruction of property, and so forth.*

Theorists generally agree that excessively intense and frequent emotional arousal of the type described above usually leads to physical symptoms, verbal expressions, socially disapproved behavior or some combination of these. The form in which emotional arousal is manifested is probably the consequences of biological predispositions and learned habits. For example, some people may have learned to manifest it through gastrointestinal disorders and others through antisocial behaviors.

There is a fifth type of tension which is probably unrelated to emotional arousal in the sense used above. When a person seeks to accomplish a difficult or demanding task through intense and prolonged effort, he may be said to be tense. Examples include lengthy conferences aimed at achieving important decisions (e.g., labor-management mediations), prolonged periods of intense study or scholarly effort, and preparation for an important contest.

Neither type of "tension" should be thought of as bad, *per se*. Only if they become excessively intense or frequent (chronic), do they become "bad" in the sense of disrupting effective behavior or producing distressing physical consequences. Fatigue or illness makes a person more vulnerable to developing excessive "tension." Obviously, if the two sources of tension combine, the extent of the tension might increase.

ORIGINS OF TENSIONS

Tensions are not "in" people. Rather, they occur only if a person is confronted with situations which induce tensions.

Briefly, and roughly stated, the rationale

is as follows. Each individual develops some habitual ways of obtaining physical, personal, and social gratifications. These are often identified in terms of the goals toward which the behavior is directed (e.g., scholarly accomplishment or social prominence). Similarly, habitual ideas about the kind of person one is are also acquired (e.g., I am the kind of student who always makes A's and B's). In addition, each person acquires habits of evaluating himself and others, as well as expectations of how others will evaluate him. Theorists generally agree that these habitual ways of seeking satisfaction, consistent ways of thinking about oneself, habits of self-evaluation, and expectations of evaluation by others are originally acquired as a consequence of the way other people have evaluated the person in the past. Once acquired, all these habits tend to function automatically, without the person being aware of their operation, even though recognizing their end result. Theorists have concluded, therefore, that much human behavior is basically an attempt to obtain and maintain one's self-approval and the approval or acceptance of significant others (e.g., parents, friends, teachers). Other people provide each person with many of his major sources of satisfaction and of unhappiness or tension.

Tensions related to emotional arousal result when formerly successful habits no longer "work" in the sense of achieving one's goals or the approvals of self and others. Fearful anticipations of failure in personal, academic, or professional life may result, or resentment over the conditions which seem to be obstructions may develop. Several types of such conditions are typical in college.

1. *The person seeks goals which he cannot achieve for some reason.*
2. *The tasks to be performed to achieve the goals are so excessive that the person cannot adequately complete them.*
3. *The resources or tools necessary to complete the goals are so excessive that the person cannot adequately complete them.*
3. *The resources or tools necessary to complete the task are not available.*
4. *The description of the task or how it is to be accomplished is so ambiguous that the person doesn't know how to proceed.*
5. *There is inadequate information as to whether the person is making progress toward his goals.*
6. *Whether or not the goal is achieved*

¹It is important to note that behaviors obviously ineffective in a current situation must have been effective in an earlier situation or they would not have been acquired in the first place.

may depend on the evaluation of others rather than oneself, and that evaluation may sometimes seem arbitrary, unpredictable, or inaccurate. When made publicly, evaluation may be used to ridicule or derogate.

Since much of human behavior is basically directed at achieving recognition, acceptance, and approval from self and others, and since the emotions basic to tensions are most frequently elicited by real or anticipated negative evaluations by others, it is apparent that the most important source of student tensions must lie in their interpersonal relationships, and in the anticipated evaluations which lie therein. Basic among these at this age are relationships with parents, with peers (particularly those of the opposite sex), and with teachers, who in a special way are far more powerful than the parents in influencing the student's life plans at this point.

The three most important goals for college students are to achieve a college degree, to become an adult, and to develop a meaningful love relationship (mate selection). Anything which interferes with achieving these goals will produce "tensions." Achieving the degree, with all the significance students believe this holds for their future status, acceptance, and well-being, is the most consistently important goal for most students.

CONSEQUENCES OF TENSION

Humans innately and automatically seek to terminate or relieve negative emotions and tensions. This can take two general forms: avoiding or running away from the circumstances which produce the difficulty, or trying to overcome or destroy such circumstances.

Avoidance. Examples of avoidance among Penn State students include not going to class; not studying; dropping classes; being too ashamed, afraid, or resentful to consult with teachers; avoiding thinking about their difficulties or pretending things are better than they are; misinforming or deceiving parents to avoid their disapproval; and changing curriculums. Of course, many other varieties of avoidance could be cited, and the behaviors listed do not always represent avoidance. Typically, avoiding or "running from" something also involves seeking other sources of satisfaction to reassure oneself of his integrity and personal worth, or as a means of obtaining temporary relief. Such substitute relationships (e.g., sexual escapades) sometimes serve to reassure the person that someone likes him, even though he feels inadequate in important ways.

Overcoming. Similarly, there are a number of ways in which individuals seek to overcome or destroy the circumstances producing their negative emotions and ten-

CALENDAR

Friday, April 12

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. M. H. Lietzke, Oak Ridge National Laboratory, on "High Temperature Aqueous Solution Chemistry."

Good Friday Services, Helen Eakin Eisenhower Chapel, beginning at noon; Methodist Service, 12:15 p.m.; Lutheran Service, 1:15 p.m.; Presbyterian Service, 2:20 p.m.

Saturday, April 13

Golf, vs. Bucknell, 1:30 p.m.; track, vs. Navy, 1:30 p.m.

Sunday, April 14

Easter Sunday Chapel Service, 10:55 a.m., Schwab Auditorium. Chapel Choir presentation of Randall Thompson's "The Peaceable Kingdom."

Community Sunrise Service, 6 a.m., steps of Old Main (in case of bad weather, Schwab Auditorium) sponsored by Student Council for Christian Concern in cooperation with State College Area churches.

Monday, April 15

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". William H. Neely, executive director, Penn State Foundation.

Priestley Lecture by Dr. Harold C. Urey, 8 p.m., Room 119 Osmond, on "The Moon."

State College Color Slide Club meeting, 7:30 p.m., Room 101 Chambers. Mrs. Vernon Myers on "A Mother's Eye View of the World." Competition judged by Robert C. Price.

Lecture sponsored by department of political science, 8 p.m., Room 110 Electrical Engineering. Dr. Samuel L. Sharp, professor of international relations, The American University, Washington, D. C., on "Ideological Diversity in Eastern Europe and Its Impact on the Soviet Union."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. R. N. Work, on "Studies of Motion in Polymers by Dielectric Methods."

Tuesday, April 16

Priestley Lecture by Dr. Harold C. Urey, 8 p.m., Room 119 Osmond, on "The Abundance of the Elements."

Mard String Quartet concert, 8:30 p.m., Schwab Auditorium.

Graduate School Lecture by Dr. Edward A. Ackerman, Carnegie Institution of Washington, on "The Armed and Disarmed World," 8 p.m., Room 121 Sparks.

Five O'Clock Theatre, 5:15 p.m., Little Theatre, Old Main. "Within a Dark Wood" by Valeri Golde, directed by Yolanda Castaneda.

Wednesday, April 17

Priestley Lecture by Dr. Harold C. Urey, 8 p.m., Room 119 Osmond, on "The Origin of the Solar System. I."

Thursday, April 18

Priestley Lecture by Dr. Harold C. Urey, 4 p.m., Room 119 Osmond, on "The Origin of the Solar System. II."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. R. Bowers, Cornell University, on "Magneto-Resistance and Magneto-Plasma Waves in Metals."

Psychology lecture by Dr. Daniel Berlyne, 8 p.m., Room 209 Home Economics South.

Mathematics Colloquium, 4 p.m., Room 109 Osmond. C. C. Chang, University of California, on algebraic logic.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Harry M. Walborsky, Florida State University, on "Stereochemical Studies on the Cyclopropyl Carbonium Ion and Radical."

Women's Recreation Association Aquacade, 8 p.m., White Hall Pool.

Friday, April 19

Priestley Lecture by Dr. Harold C. Urey, 8 p.m., Room 119 Osmond, on "The Origin of the Elements."

University Lecture Series, 8:30 p.m., Schwab Auditorium. Justice William O. Douglas, on "Democracy vs. Communism in Asia."

College of Agriculture Research Seminar, panel discussion on "Research and Needs of Pennsylvania in Animal Industries," with R. F. Gentry, Thomas B. King, and C. W. Pierce.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Frederick Forrow, Jr., Yale University, on "Autoradiography of Bacterial Chromosomes."

Churchmen

Prof. Krister Stendahl, professor of New Testament Studies, Harvard Divinity School, will give two addresses during a faculty conference of the Middle Atlantic Region April 20 and 21 in the Eisenhower Chapel.

The conference is titled, "The Christian Churchman in the University" and Dr. Stendahl's addresses are "The Responsibilities and Roles of the Faculty in their Respective Churches," and "The Role of the Fellowship in the University Setting."

The first session of the conference will be held April 20 at 2:30 p.m. Dinner will be at 6 p.m. in the Nittany Lion Inn and a second session will follow. The third session will be held at 9:15 a.m., April 21.

Faculty members planning to attend should notify the U.C.A. office (UN 5-7627) by April 17.

Good Friday

A three-hour service of meditation and music will be provided by the University Christian Association in the Eisenhower Chapel today (Friday) from noon to 3 p.m.

Ray Zeigler, senior in music education, will give 15-minute organ recitals at noon and 1 p.m. and a clarinet sextet directed by Rex Rockwell will play music specially written by University organist George Ceiga for the service at 2 p.m.

The service at 12:15 will be conducted by the Rev. Richard Nutt, director of the Wesley Foundation; at 1:15 p.m. by the Rev. Arthur Seyda, Lutheran campus pastor; and at 2:20 p.m. by the Rev. Donald McIlvride, director of Westminster Foundation.

faculty BULLETIN

Vol. 50, No. 37 April 12, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Question 7

The movie, "Question 7," depicting the struggle between Christianity and Communism in East Germany, will be shown Sunday at 7 p.m. in Room 121 Sparks, sponsored by the West Halls Religious Affairs Committee.

The story centers around an Evangelical pastor and his teenage son and their dealings with the East German government. It is based on real incidents and was filmed in West Germany, a few miles from the East German border. It was voted "Best Motion Picture of 1961" by the National Board of Review and was awarded the 1961 Grand Prix by the International Catholic Film Office.

Everyone in the University community is invited. The Rev. Arthur Seyda, Lutheran Campus Pastor, will lead the discussion to follow.

Library week

President Walker today urged extension of state aid to all of the Commonwealth's 415 public libraries.

Speaking as Pennsylvania chairman for National Library Week being observed April 21-27, the President stressed the role of the public library in supplying inspiration and instruction for young people who have no other access to good books.

Natanson speaks

Maurice Natanson, distinguished visiting professor of philosophy and speech, will lecture on "Philosophy and Psychiatry" at a special colloquium Friday, April 26, at 8 p.m. in Room 214 Boucke.

Reading festival

The 15th annual Pennsylvania Intercollegiate Interpretative Reading Festival, sponsored by The University Readers and oral interpretation classes of the department of speech, will be held Thursday and Friday, April 25 and 26.

Prof. Joseph F. Smith, one of the leading figures in the interpretive reading field and tributary theatre, will be commentator for the Festival and also will present a guest reading at the annual banquet Thursday, at 5:30 p.m., in the HUB. Smith, who has held many top positions in speech associations in the country and is author of "Fundamentals of Speech" and "Skill in Reading Aloud," has also directed more than 150 plays in the U. S. and Canada.

Faculty chairman of the Festival is Mrs. Harriett Nesbitt and other members of the Committee are Dr. William W. Hamilton, Mary Ellen Savage, and students Edith Mattke and Rochelle Goulde.

Poetry sessions will be held at 1:30 Thursday; the evening reading session will be given at 8 p.m. Thursday; the short story sessions are scheduled for 8:45 a.m. Friday; and the drama sessions at 1:15 p.m. Friday. All sessions will be held in the HUB assembly room.

Alumni Fund

Contributions of \$166,389.78 have been made to the 1963 Alumni Fund as of April 12, by 4,692 contributors.

Conservation Camp

More than 170 high school boys will be enrolled this summer in the Pennsylvania Junior Conservation Camp, sponsored by the Pennsylvania Federation of Sportsmen's Clubs, June 23-Aug. 17, at Stone Valley Recreation area. Charles W. Stoddart, Jr., director of physical education continuing education, is director of the camp.

Archery

A clinic involving the various archery techniques, and an analysis of the skill and coaching suggestions, will feature Clayton Shenk, N.A.A. president, with the aid of Lars Edburg, Mrs. June Bowers, and Mrs. Reba Alden. The clinic will be held tomorrow (Saturday) from 2 to 4 p.m. at White Building.

International Weekend

Om Prakash Talwar, United Nations Division of General Economic Research and Policies, will speak on "The Decade of Development" at the annual banquet of International Weekend, sponsored by the Cosmopolitan Club. The banquet will be held at the Lutheran Student Center, W. College Ave. and S. Atherton St., at 6:30 p.m. Saturday (tomorrow). Other features of the event will be a style show, Japanese magician, and foreign music. Tickets, \$2, at HUB desk.

Cuba discussed

Author J. P. Morray, who returned to the United States in July, 1962 after two years as visiting professor of political science at the University of Havana and conducting research, will speak on "Cuba: A View from Within," Wednesday, April 24, sponsored by the Friends Peace Committee, the University Christian Association, and SENSE (Students for Peace group).

A graduate of the U. S. Naval Academy, Morray was on active duty for the Navy for seven years, including five years as assistant Naval Attache at U. S. embassies in Madrid, Spain, and Asuncion, Paraguay. He was visiting professor of law and speech at the University of California at Berkeley, 1957-1960, before going to Cuba for research under a foundation grant.

In addition to the bachelor's degree from the Naval Academy, Morray was granted the bachelor of laws degree by Harvard Law School in 1948. He also studied at the University of Paris, 1948-49.

He is the author of "Pride of State" (Beacon Press, 1959); "From Yalta to Disarmament" (New York: Monthly Review, 1961); and "The Second Revolution in Cuba" (New York: Monthly Review, 1962), and of various articles in other publications.

The Monthly Review is "an independent Socialist magazine," and in the same edition with Morray's article on "Cuba and Communism" were articles by Che Guevara, Fidel Castro, Paul A. Baran, and Mark Schleifer.

Pryce lectures

Prof. M. H. L. Pryce, physics department, Bristol University, England, will give three lectures next week of interest to those in the fields of chemistry and physics.

Wednesday and Thursday, April 24 and 25, he will lecture on "Ligand Field Theory" at 4 p.m. in Room 105 Walker.

Friday, April 26, at 4:15 p.m., in Room 117 Osmond, he will address the Physics Colloquium on "Spin-Phonon Coupled Waves."

Douglas speaks

Associate Justice William O. Douglas, of the U. S. Supreme Court, will speak on "Democracy vs. Communism," at 8:30 p.m. to night (Friday) in Schwab Auditorium.

Tickets are on sale at the HUB desk for the lecture, which is part of the University Lecture Series.

Church school aid discussion

William D. Ball, general counsel for the Pennsylvania Catholic Welfare Committee, and Paul Blanshard, author, will discuss the question of Federal aid to church-related schools at a symposium May 6.

The symposium is to be sponsored by the department of educational services of the College of Education. Dr. J. R. Rackley, vice president in charge of resident instruction, will preside.

Ball, formerly professor of constitutional law at Villanova University and now lecturer on church-state relations, is the author of various articles on church-state relations and constitutional law problems in law journals, *Commonweal*, *Catholic World*, *Interracial Review*, *Teachers College Record* and other publications. He is a member of bars of New York, Pennsylvania, and the U.S. Supreme Court.

Paul Blanshard, who has been essentially a writer since 1946, was ordained to the ministry of the Congregationalist Church in 1917 and

was pastor of a church, was a labor union educational director, was field secretary for the League for Industrial Democracy for eight years, was associate editor of *The Nation*, 1928-29, was director of city affairs committee in New York, was admitted to the New York bar and practiced 1939-41, was an economics analyst for the U. S. Department of State, 1942-46. He is the author of such works as "God and Man in Washington"; "The Right to Read"; "The Irish and Catholic Power"; and "Communism, Democracy, and Catholic Power."

The Arts

stevens lecture

Denis Stevens, distinguished visiting professor of music, will discuss the music of Spain from the earliest times in a lecture titled, "Church Music in Medieval Spain," Wednesday, April 24, at 8 p.m. in Little Theatre, Old Main. He will demonstrate, with many illustrations, how the Arabian, Jewish, French, and English culture profoundly influenced the music of Spain. Two of Spain's medieval monuments of polyphony, the *Codex Calixtinus* and the *Codex Las Heulgas*, will be heard.

art exhibit

Pintores Centroamericanos, an exhibition of contemporary Central American art including works loaned by the Museum of Art, University of Kansas, the Pan American Union, and artists Rodolfo Mishan Pinto and Rodolfo Abufarach, opened at the HUB Gallery this week.

A public reception, to be attended by U. S. State Department officials and dignitaries of Central American countries will be held tomorrow (Saturday) at 4 p.m. in the Gallery. Pinto will be among those present.

artists series

Folksinger Joan Baez will present two programs next Friday (April 26) tickets for which will go on sale April 24. She will sing in Schwab Auditorium at 7:30 p.m. and at 9:15 p.m.

persichetti weekend

Vincent Persichetti, distinguished American composer, will be featured in a number of activities tomorrow (Saturday) and Sunday. At 1:30 p.m. Saturday, he will conduct the Blue Band in open rehearsal in Schwab Auditorium. At 2:30 p.m. he will present an illustrated lecture, "Our American Music" in Room 10, Sparks. At 4 p.m., he will take part in an open rehearsal with the Alard Quartet in Schwab. At 8:30 p.m. in Schwab, an all-Persichetti program will be given by Dr. Leonard Raver, organist, Raymond Brown, baritone, Phyllis Triolo, pianist, Overda Page, flutist, with Nan Gullo Mann, harpist, and the Alard Quartet. Sunday, he will appear with the Blue Band, directing his own composition, "Psalm for Band," at 3 p.m. in Schwab.

blue band

The Penn State Concert Blue Band, with James W. Dunlop directing, will play a concert Sunday at 3 p.m. in Schwab Auditorium, with flutist James J. Pellerite as guest artist.

Among the numbers to be played will be "Moods," by George E. Ceiga, University organist, who has dedicated the number to Dunlop.

The 110-piece band will also feature "Suite in A Minor" by G. P. Telenian, arranged by Houdeshell-Raven and "Night Soliloquy" by Ken Kennan, with Pellerite as soloist.

Other works to be played are by Clifton Williams, Richard Wagner, Mendelssohn, Sousa, and Vittorio Giannini.

PERSONNEL MATTERS

Dr. Zbigniew Folejewski, professor of Slavic languages at the University of Wisconsin, has been named to a similar position here, effective July 1. He is currently visiting professor at the University of Toronto. Born in Poland and educated in Russia and Poland, he received the master's degrees from Wilno University in Poland and three doctor's degrees from Uppsala University, Sweden. He has also studied in France and England. He has taught at Catholic College in Harbin, Manchuria, and the University of Stockholm and Uppsala University. He has been at Wisconsin since 1947 and head of the Slavic languages department since 1960.

Dr. Duane Whittier, instructor in philosophy, has been granted a leave from July 1 to June 30, 1964, to serve as visiting assistant professor at the University of Illinois, teaching a course in aesthetics.

Dr. Robert Enggass, associate professor of history of art and architecture, will be on leave from Sept. 1 to June 30, 1964, to do research in the area of Neapolitan Baroque painting at the University of Rome as a Fulbright Scholar.

Dr. Richard Gotshalk, assistant professor of philosophy, plans to do research on metaphysics while on leave from Sept. 1 to Dec. 31.

Dr. Henry S. Albinski, assistant professor of political science, has been appointed visiting fellow at the Research School of Pacific Studies in the department of international relations at the Australian National University at Canberra for the 1963-64 academic year. He has received a travel grant from the Rockefeller Foundation. He will do research on Australian-Chinese relations and participate in seminars and graduate student counseling.

William H. Park, assistant professor of mechanical engineering, has been given a leave for the 1963-64 academic year to do graduate work at Cornell University, working for the doctor of philosophy degree in mechanical engineering.

Dr. Stanley H. Rosen, assistant professor of philosophy, has been named Post-Doctoral Research Fellow at the Institute for Research in Humanities of the University of Wisconsin for the next academic year. He will engage in research in philosophy and hopes to complete a book, "Philosophy and History."

(Continued on page four)

Student Attitude Survey

(The third in a series of articles on a survey conducted among students last year by the Student Affairs Research Office.)

Two subjects on which students were queried in the Student Attitude Survey in 1962 were, and still are, discussed frequently by students and faculty members: Term System and Television Courses.

TERM SYSTEM

1. Reason

"The four-term system was initiated mainly . . ."

Students were asked to select one of four reasons that they thought the term system was installed. The reasons and the Total Response as indicated by per cent:

	Per cent
a. To get more work out of the faculty	0.2
b. To enable a student to complete college in a shorter time.	28.5
c. To accommodate more students in existing physical facilities	59.8
d. For reasons unknown to the students	11.5

Term—variations from Total Response were not great but it may be significant that 38% of freshmen but only 17 per cent of seniors selected Choice 2. On the other hand, only 49% of freshmen but 72% of seniors selected Choice 3. Other variables studied showed no significant trends from Total Response.

2. Opinions

The students were given eight statements about the term system and were asked to select the three they thought most characteristic of their opinion and to rate the three A, B, and C. The statements and the ratings they gave each:

	Per cent		
	A	B	C
a. It allows students to concentrate on a fewer number of subjects.	23	13	10
b. It puts too much pressure on the students	19	18	15
c. It allows students more time to hold jobs over vacation.	x	2	5
d. It cuts too much into the time for social and extra-curricular activities	1	4	9
e. It allows students to receive a degree in a shorter period of time	6	11	16
f. It should include a scheduled final examination period	11	16	18
g. It does not allow students enough time to digest what is taught	29	19	12
h. It causes students to take a more serious attitude toward academic work	11	17	15

(Note: X is less than one per cent)

Four of the items (a, c, e, and h) are positive or favorable characteristics; b,d,f,

and g are negative aspects of the term system, although i (final exam period) might be labeled a positive criticism.

Total—g (lack of time to digest) not only was chosen by a larger group as first choice but was mentioned as one of three choices by 60 per cent of the respondents. "A" (fewer subjects) was second highest in first choices (23%) but was selected by only 41% as one of the three choices, while "B" (too much pressure) was chosen by 51% as one of three choices.

It may be significant that students did not agree that the term system cut into their time "too much" for social activities. Apparently, also, the students did not view the Term System as having any effect on the summer employment opportunity or on the time to get a degree.

It is interesting that "A" choices for positive characteristics totalled only 40%; negative 60%.

GPA—35% of the students in the lowest grade-point-average group (GPA-1) ranked "too much pressure" as first choice, but other GPA groups ranked "time to digest" first, as did Total Response. Of the GPA-6 group 44% ranked "time to digest" first choice, much higher percentage-wise than Total Response.

College—Students in Division of Counseling rated "too much pressure" as first choice; Business Administration students gave equal weight to "too much pressure" and "fewer subjects"; and Home Economics students rated "serious attitude" as first choice. With these exceptions, and the fact that Phys. Ed. students rated "too much pressure" and "time to digest" equally, responses by College followed the Total Response pattern closely. However, Business Administration students failed to rate "time to digest" among the first three choices.

Year—perhaps unexpectedly, students in all classes ranked "time to digest" as first choice and "too much pressure" as second choice, with the exception of sophomores who ranked "time to digest" as both first and second choice. "Final exam period" got support as third choice.

2. General opinion

"On the whole, I like the four-term system better than the semester system."

Total—Strongly agree, 13%; agree 38%; disagree 22%; and strongly disagree, 27%. Total agreement, 51% total disagreement, 49%.

Term—Freshmen showed most agreement, 62%; and seniors least, 41%.

College—Physical Education (36%) and DOC (39%) registered least agreement; Home Economics (56%) and Agriculture (54%) greatest agreement.

GPA—lowest two groups indicated greatest disagreement, 61% by GPA-1 and 53% by GPA-2.

SUMMARY OF TERM SYSTEM

The students were about equally divided in their opinion on the term system as indicated by the general question. They selected "not enough time to digest" as the characteristic most descriptive of eight statements about the system and in general gave somewhat more emphasis to negative than to positive statements. They did not think that the term system "allows more time to hold jobs over vacation" nor did they agree that "it cuts into time for social and extra-curricular activities."

TELEVISION COURSES

Three types of questions asked sought the student's opinion about the future use of television as a teaching device, a record of the TV courses he has already taken, and an opinion on the comparative merits of TV and non-TV courses.

"I believe the use of television as a medium of teaching at the college level to have a great future."

Total—12% strongly agree; 42% agree; 29% disagree; and 17% strongly disagree. Total agreement, 54%.

GPA—Only GPA-6 group showed more disagreement (54%), but, curiously, the next highest group, GPA-5, showed the greatest agreement, 60%.

Term—freshmen agreed 67% but only 46% of the seniors so agreed.

College—Home Economics students showed least agreement (35%) and highest agreement was indicated by Engineering students (61%). Mineral Industries (61%) and Agriculture (61%) were also high.

"I have had the following number of classes taught by television." The responses are tabulated as follows: none (21%); one (30%); two (25%); and three or more (24%).

Year—only 10 per cent of the freshmen had had no television courses and 33% listed three or more. Other classes showed little variation from total response.

College—Business Administration students had the highest percentage (46%) of "three or more" and DOC students were also high (41%). Only two per cent of Home Economics students had three or more. Six per cent of Chemistry and Physics students had taken no television courses (smallest percentage).

Sex—58% of the men had taken two or more courses by TV, but only 33% of the women had done so.

"Courses taught by television, when compared to regular live courses are . . ."

Total—better 9%; equally as good, 32%; not as good, 44%; and very bad, 15%.

Term—freshmen response to "better" was 18%, but only 2% of seniors responded in this manner.

College—None of the Home Economics students said they thought television courses were better but 30% of the Chemistry and Physics students did think so.

(Continued on page six)

Church school aid discussion

William D. Ball, general counsel for the Pennsylvania Catholic Welfare Committee, and Paul Blanshard, author, will discuss the question of Federal aid to church-related schools at a symposium May 6.

The symposium is to be sponsored by the department of educational services of the College of Education. Dr. J. R. Rackley, vice president in charge of resident instruction, will preside.

Ball, formerly professor of constitutional law at Villanova University and now lecturer on church-state relations, is the author of various articles on church-state relations and constitutional law problems in law journals, *Commonweal*, *Catholic World*, *Interracial Review*, *Teachers College Record* and other publications. He is a member of bars of New York, Pennsylvania, and the U.S. Supreme Court.

Paul Blanshard, who has been essentially a writer since 1946, was ordained to the ministry of the Congregationalist Church in 1917 and

was pastor of a church, was a labor union educational director, was field secretary for the League for Industrial Democracy for eight years, was associate editor of *The Nation*, 1928-29, was director of city affairs committee in New York, was admitted to the New York bar and practiced 1939-41, was an economics analyst for the U. S. Department of State, 1942-46. He is the author of such works as "God and Man in Washington"; "The Right to Read"; "The Irish and Catholic Power"; and "Communism, Democracy, and Catholic Power."

The Arts

stevens lecture

Denis Stevens, distinguished visiting professor of music, will discuss the music of Spain from the earliest times in a lecture titled, "Church Music in Medieval Spain," Wednesday, April 24, at 8 p.m. in Little Theatre, Old Main. He will demonstrate, with many illustrations, how the Arabian, Jewish, French, and English culture profoundly influenced the music of Spain. Two of Spain's medieval monuments of polyphony, the *Codex Calixtinus* and the *Codex Las Heulgas*, will be heard.

art exhibit

Pintores Centroamericanos, an exhibition of contemporary Central American art including works loaned by the Museum of Art, University of Kansas, the Pan American Union, and artists Rodolfo Mishaan Pinto and Rodolfo Abularach, opened at the HUB Gallery this week.

A public reception, to be attended by U. S. State Department officials and dignitaries of Central American countries will be held tomorrow (Saturday) at 4 p.m. in the Gallery. Pinto will be among those present.

artists series

Folk singer Joan Baez will present two programs next Friday (April 26) tickets for which will go on sale April 24. She will sing in Schwab Auditorium at 7:30 p.m. and at 9:15 p.m.

persichetti weekend

Vincent Persichetti, distinguished American composer, will be featured in a number of activities tomorrow (Saturday) and Sunday. At 1:30 p.m. Saturday, he will conduct the Blue Band in open rehearsal in Schwab Auditorium. At 2:30 p.m. he will present an illustrated lecture, "Our American Music" in Room 10, Sparks. At 4 p.m., he will take part in an open rehearsal with the Alard Quartet in Schwab. At 8:30 p.m. in Schwab, an all-Persichetti program will be given by Dr. Leonard Raver, organist, Raymond Brown, baritone, Phyllis Triolo, pianist, Overda Page, flutist, with Nan Gullo Mann, harpist, and the Alard Quartet. Sunday, he will appear with the Blue Band, directing his own composition, "Psalm for Band," at 3 p.m. in Schwab.

blue band

The Penn State Concert Blue Band, with James W. Dunlop directing, will play a concert Sunday at 3 p.m. in Schwab Auditorium, with flutist James J. Pellerite as guest artist.

Among the numbers to be played will be "Moods," by George E. Ceiga, University organist, who has dedicated the number to Dunlop.

The 110-piece band will also feature "Suite in A Minor" by G. P. Telemann, arranged by Houdeshel-Raven and "Night Soliloquy" by Ken Kemman, with Pellerite as soloist.

Other works to be played are by Clifton Williams, Richard Wagner, Mendelssohn, Sousa, and Vittorio Giannini.

PERSONNEL MATTERS

Dr. Zbigniew Folejewski, professor of Slavic languages at the University of Wisconsin, has been named to a similar position here, effective July 1. He is currently visiting professor at the University of Toronto. Born in Poland and educated in Russia and Poland, he received the master's degrees from Wilno University in Poland and three doctor's degrees from Uppsala University, Sweden. He has also studied in France and England. He has taught at Catholic College in Harbin, Manchuria, and the University of Stockholm and Uppsala University. He has been at Wisconsin since 1947 and head of the Slavic languages department since 1960.

Dr. Duane Whittier, instructor in philosophy, has been granted a leave from July 1 to June 30, 1964, to serve as visiting assistant professor at the University of Illinois, teaching a course in aesthetics.

Dr. Robert Enggass, associate professor of history of art and architecture, will be on leave from Sept. 1 to June 30, 1964, to do research in the area of Neapolitan Baroque painting at the University of Rome as a Fulbright Scholar.

Dr. Richard Gotshalk, assistant professor of philosophy, plans to do research on metaphysics while on leave from Sept. 1 to Dec. 31.

Dr. Henry S. Albinski, assistant professor of political science, has been appointed visiting fellow at the Research School of Pacific Studies in the department of international relations at the Australian National University at Canberra for the 1963-64 academic year. He has received a travel grant from the Rockefeller Foundation. He will do research on Australian-Chinese relations and participate in seminars and graduate student counseling.

William H. Park, assistant professor of mechanical engineering, has been given a leave for the 1963-64 academic year to do graduate work at Cornell University, working for the doctor of philosophy degree in mechanical engineering.

Dr. Stanley H. Rosen, assistant professor of philosophy, has been named Post-Doctoral Research Fellow at the Institute for Research in Humanities of the University of Wisconsin for the next academic year. He will engage in research in philosophy and hopes to complete a book, "Philosophy and History."

(Continued on page four)

Community Colleges

Kenneth L. Holderman, coordinator of Commonwealth Campuses, presented to the Board of Trustees of the University at a recent meeting a comprehensive report on community colleges in the nation. The subject is being debated vigorously in Pennsylvania on both the local and State level as the urgent need for action in education becomes more and more obvious. The following article is a condensation of Mr. Holderman's presentation to the Trustees.

by K. L. Holderman
Coordinator of Commonwealth Campuses

To help meet the rising demand for higher education, many states and municipalities have turned to the community college as a new institution through which many of the mounting educational problems may be solved. Pennsylvania is among the states being urged to consider development of community colleges.

Unfortunately, at least from the standpoint of orderly consideration of this development, the term "Community college" means different things to different people and the alternate terms sometimes used—"junior college" "two-year college" and "city college"—do little to dispel the confusion.

The term "community college" does not appear in educational literature to any extent prior to World War II, although some of the junior colleges in California have been in existence for a quarter-century. In 1957, the President's Committee on Education Beyond the High School used the term rather extensively, but the committee recognized—as have most all groups that have studied the matter—that the area of educational interest served by the community college can be described better as that being provided by "Two-Year Higher Institutions."

The Committee said in its report in a chapter headed "Two-Year Higher Institutions":

"The program of the comprehensive community college includes: (a) the first two years of a full collegiate program; (b) many kinds of programs, carrying in time-requirements, needed by vast numbers of students for general education integrated with vocational-technical training for the sub-professional occupations; (c) many kinds of short courses required for upgrading employed persons and for retraining employees because of changes in business and industrial developments; and (d) adult or continuing education programs and courses of the kinds desired by the community."

A recent U. S. Office of Education publication ("State Formulas for the Support of Public Two-Year Colleges") says this:

"Within the current rising surge of public interest in college and university education, the special attraction of the two-year college is notable. Operating under different names in different states and situations, these two-year colleges have come to be

recognized as a basic answer to the demand of more people for more education beyond the high school level.

"The decentralization of higher education, which the establishment of two-year institutions represents, is aimed essentially at the reduction of the barriers of geography and financial costs which have traditionally kept many who desire and could profit by further education from attaining this goal."

Most discussions on community colleges include evaluations of the California and New York systems which are two of the largest. California junior colleges have been so successful in some ways in helping to meet the education demands of that state that disciples of the system frequently advance the idea that theirs is the only system that is truly workable and that it should serve as a national model.

As most students of higher education will recognize, however, there are many sectional differences existing in the country—historical, social, and economic—to suggest that the pattern of higher education (including the two-year colleges if they are to be considered as higher education) will vary from the far west to the eastern seaboard.

The California schools, although closely related to the needs and deeply dependent upon the financial support of the communities in which they are located, are not ordinarily referred to as community colleges but rather as "junior college" or "city college." Many California junior colleges have failed to provide programs other than a satisfactory transfer curriculum and as a whole they enroll

two-thirds of all their students in transfer programs, although only one-third of their graduates actually continue their education at four-year colleges or universities.

The public two-year college under the banner of "community college" has had its most significant development in New York, where it is organized locally yet is under the general cognizance of the State University. These institutions are an outgrowth of a state experimental program for technical institutes, initiated in 1946, and were founded for that purpose; they now have a basic orientation toward semi-professional education at the college level. Their programs all lead to the associate degree. More recently, however, these institutions have organized and have placed growing emphasis on their transfer programs, so that there appears to be emerging a satisfactory balance in curricular offerings.

The Functions

There is a general acceptance of the principle that the public two-year college should provide a five-fold function, capable of offering all or the major part of the following programs:

1. A "transfer" program, enabling the student to transfer to an accredited four-year college or university to get a baccalaureate degree.

2. Terminal programs, perhaps leading to the associate degree, designed to prepare for semi-professional careers.

3. A general education program for neither transfer nor occupation training.

4. Adult education program which may parallel the others but also provide continuing education for vocational or personal advancement.

5. Testing and counseling service, to help the student get into the program suited to his ability and need.

Contrasting and comparing community college systems should take into consideration not only programs, however, but also admissions policies, local authority, state authority, financing of operating costs, and financing of capital costs. In several of these respects the California and New York programs are direct contrasts.

By law, California junior colleges must accept all who apply, founded on the premise that a truly comprehensive program will provide a place for any one. This viewpoint accepts the principle that vocational training not of college character should also be the responsibility of the junior college.

On the other hand, New York community colleges are selective in their

admissions practices to be sure that those enrolled are qualified to profit from a truly collegiate program, terminal or transfer. Responsibility for purely vocational training rests with the secondary and vocational schools already in existence and financed through both state and federal legislative action.

Local Authority

In some cases, California junior colleges have separate local boards of control; in others, a unified school district with a single school board is responsible for the junior college as well as the primary and secondary schools. With the latter arrangement, there is a tendency to relate the college too closely to secondary education.

Most of the community colleges in New York are controlled locally through county government, an arrangement that has proved to be generally satisfactory. The college, for example, is not considered an upper extension of the high school and thus can operate with a truer collegiate orientation. Local direction is provided by separate local boards, some members of which are elected and others appointed by the governor.

State Authority

Should community college systems be organized through channels of secondary education or those of higher education? Some authorities argue community colleges are unique and separate educational entities, and should therefore be organized separately.

Inevitably, the agency of state government responsible for control or direction of the two-year college represents either basic education or higher education.

The effectiveness of public two-year colleges, in many states, probably has been affected more by this matter of responsible state control than by any other single factor. In those states that control their two-year colleges through a body clearly, or solely, responsible for higher education, the institutions are able to meet higher educational goals and have better acceptance in educational circles and by the general public.

In California, the junior colleges are considered to be in the area of higher education, but the point of control within the state government remains with the State Department of Education and the State Superintendent of Public Instruction. The junior college's only real connection to higher education is through the recently created Coordinating Council for Higher Education.

The New York community colleges

are part of the State University and report to the state government through the executive dean for institutes and community colleges, the president of the University, and its Board of Trustees. The relation of the college's role to that of all higher education in New York is defined by the Regents when that body periodically reviews the plans of the University.

Financing

According to a 1960 report of the U. S. Office of Education, there were then 452 two-year colleges in 42 states receiving some public funds for their support, including 303 local junior colleges, 22 state junior colleges, 12 technical institutes, 89 branches or extension centers of four-year colleges, and 26 other two-year colleges.

Great variations exist in the relative proportions of support for operations provided to the colleges by the student, the local community, and the state. Seventeen states have a specific formula in the law for current operational support; 26 states provide legislative appropriations for current support.

California junior colleges charge no tuition and operating costs are met through the use of local tax funds, amounting to about 78 per cent of the total and the remaining 22 per cent is provided by the state through a fairly involved support formula. Facilities are built by local tax funds.

On the other hand, operating costs of community colleges in New York are shared equally by the student, the community, and the state. Matching funds for capital outlay are provided by the state to the local community, subject to maximum limitations, regardless of the source of local funds. Private gifts and grants are matched.

Pennsylvania's Colleges

With the exception of Penn State's Commonwealth's Campuses and Hershey Junior College, there are no public two-year colleges in the State, although there are some junior colleges privately controlled and financed.

In most cases the physical facilities of the Commonwealth's Campuses have been provided by the communities, not by law or the use of local taxes but simply by the personal contributions of citizens. Operating costs are shared about equally by the student (who pays the regular Penn State fee) and, through support of the University, by the State. Local incorporated advisory boards represent the people

and organizations of the community in the affairs of the Commonwealth Campus.

In many respects, the Commonwealth Campus system is closer in orientation to the community colleges of New York rather than to California junior colleges. In matters of student selection and counseling, faculty recruiting, programming, and adult education programs, the Commonwealth Campuses are in some respects further advanced than other systems elsewhere.

In attempting to determine the need for and the place of community colleges in Pennsylvania, the relationship of the Commonwealth Campuses and other branch campuses of colleges and universities seems important.

In addition, the other varying factors that would be involved in the establishment, financing, and control of new public two-year colleges should be matters of careful study and analysis, if Pennsylvania is to take advantage of the experience of other states and make any significant advances in the area of higher education.

Personnel—

(Continued from page two)

Dr. Elsworth R. Buskirk, professor of physical education, has been named director of the Laboratory for Research on Human Performance, which will be a unit of the Institute for Science and Engineering.

Dr. John M. Warren, associate professor of psychology, has been appointed director of the Laboratory for Research on Animal Behavior, also a unit of the new Institute.

Harry H. West, instructor in civil engineering, has been granted a leave of absence from September until January, 1966, to pursue work for a doctorate in civil engineering at the University of Illinois, under a National Science Foundation science-faculty fellowship.

Dr. Marian B. Pour-El, associate professor of mathematics now on leave, will continue her leave to do full-time research in mathematical logic at the Institute for Advanced Study at Princeton, N. J.

Mrs. Helen M. Pierce, research assistant in the Bureau of Business Research, will be on leave from July 15 to Oct. 15.

Robert W. Bacigalupo, instructor in chemistry at McKeesport Campus, is working toward his doctorate in chemistry at the University while he is on leave.

CALENDAR

Friday, April 19

Priestley Lecture by Dr. Harold C. Urey, 8 p.m., Room 119 Osmond, on "The Origin of the Elements."

University Lecture Series, 8:30 p.m., Schwab Auditorium. Justice William O. Douglas, on "Democracy vs. Communism in Asia."

College of Agriculture Research Seminar, panel discussion on "Research and Needs of Pennsylvania in Animal Industries," with R. F. Gentry, Thomas B. King, and C. W. Pierce.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Frederick Forrow, Jr., Yale University, on "Autoradiography of Bacterial Chromosomes."

Aquacade, by W.R.A. "Naiads," 8 p.m., White Building pool.

Saturday, April 20

Conference on "The Public Interest and Individual Economic Decision-Making," beginning at 10 a.m., Nittany Lion Inn. Principal speakers, Emery Bacon, U. S. W. educational director, and Dr. F. Bruce Morgan, Amherst College.

Faculty Conference on "The Christian Churchman in the University." Principal speaker, Dr. Krister Stendahl, Harvard Divinity School. Sessions at 2:30 and 8:30 p.m., The Chapel.

Varsity golf, vs. Georgetown, 1:30 p.m.; varsity baseball, vs. Rutgers, 2 p.m.

Archery Clinic, 2-4 p.m., White Building.

Reception for Central American dignitaries and State Department officials for Central American art exhibit, 4 p.m., HUB Gallery.

Aquacade, by W.R.A. "Naiads," 8 p.m., White Building pool.

Sunday, April 21

University Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Krister Stendahl, Harvard Divinity School, on "Three Types of Faith."

Blue Band concert, 3 p.m., Schwab Auditorium, directed by James Dunlop, with James Pellerite, flutist, as composer.

Movie, "Question 7," 7 p.m., Room 121 Sparks, sponsored by West Halls Religious Affairs Committee. Discussion following.

Monday, April 22

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Walter H. Walters, theatre arts, on "Pavilion Theatre and The Chinese Wall."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Irving Rapport, La Rabida, University of Chicago Institute, on "Activation of Latent Virus Infection by Heat."

American Chemical Society, Central Pennsylvania section, meeting 8 p.m., Room 112 Buckhout. Dr. R. A. Benkeser, professor of chemistry, Purdue University, on "The Reduction of Organic Compounds by Lithium in Low Molecular Weight Amines."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. P. R. Wen, on "Combined Stress Creep Behavior of Plastics."

Microbiology Seminar, 12:45 p.m., Room 206 Patterson. Dr. J. W. Newton, Northern Utilizational Research and Development Division, U.S.D.A., Peoria, Ill., on "Structural and Functional Disulfides in the Photochemical Apparatus of Bacteria."

Tuesday, April 23

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. Bruce Kendall, on "Electrical and Magnetic Analyzing Systems Used in Mass Spectroscopy."

Economics Faculty Seminar, 12:25 p.m., HUB dining room "A." Martin Beckmann, professor of economics, Brown University, on "Economic Growth with Decreasing Returns to Scale."

Wednesday, April 24

Lecture by Denis Stevens, distinguished visiting professor of music, 8 p.m., Little Theatre, Old Main, on "Church Music in Medieval Spain."

Chemistry Colloquium (special), 4 p.m., Room 105 Walker. Prof. M. H. L. Pryce, Bristol University, England, on "Ligand Field Theory."

Varsity tennis, 3:30 p.m., vs. Navy.

Thursday, April 25

Chemistry Colloquium (special), 4 p.m., Room 105 Walker. Prof. M. H. L. Pryce,

Bristol University, England, on "Ligand Field Theory."

Chemistry Colloquium (regular), 12:30 p.m., Room 302 Whitmore. Prof. A. C. Albrecht, Cornell University, on "Studies in Vibronic Spectroscopy."

Mathematics Colloquium, 4 p.m., Room 109 Osmond. Prof. W. Feller, on "Some Tauberian Theorems."

Friday, April 26

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. B. T. Bernstein, American-Standard, Union, N. J. on "Effect of Conduction Electrons on the Temperature Dependence of Ultrasonic Velocity in Cubic Metals."

College of Agriculture Research Seminars, 4 p.m., HUB auditorium. Discussion by Dr. M. A. Farrell and John C. Frey on "Research and Needs of Pennsylvania—A Land and Water Resources Institute."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Owen M. Phillips, John Hopkins University, on "Inertial Waves in Rotating Fluids."

Colloquium sponsored by departments of philosophy and speech, 8 p.m., Room 214 Boucke. Dr. Maurice Natanson, distinguished visiting professor of philosophy and speech, on "Philosophy and Psychiatry."

Survey—

(Continued from page five)

Opinion on television teaching seems almost equally divided. Although fewer than half (44%) of the students felt that TV courses were as good as live courses at present, 54% thought that television has a great future as a medium of teaching.

Men students had somewhat more experience with television courses and were somewhat more favorably inclined toward them than women students. The same is true of freshmen students as opposed to the other three classes.

faculty BULLETIN

Vol. 50, No. 38 April 19, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Pavilion theatre

Ten performances of the Max Frisch farce, "The Chinese Wall," will be the inaugural feature of theatre performances at the new Pavilion Theatre (at Curtin and Shortlidge Roads) beginning May 9 and concluding May 18.

Tickets for the play will go on sale Monday (April 29) at the Pavilion box office and phone orders may be placed by calling UN 5-6309. The tickets are priced at \$1.75 for Friday and Saturday evening performances and \$1.50 for the weekday and Saturday afternoon performance on May 11. The box office is open daily from 10 a.m. to 6 p.m. and reservations may be picked up at the box office at the time of the performance.

John O'Shaughnessy, whose Broadway directing credits include "Command Decision," "A Phoenix Too Frequent," and "Red Roses for Me" will direct the opening play at Pavilion Theatre. His directing experience includes many plays at Arena Stage in Washington, D. C., Ann Arbor, Mich., and Houston Playhouse. He was resident director for ten seasons at the Pocono Playhouse and participated in two drama seasons in San Juan, Puerto Rico.

Singers

Raymond Brown will direct the Penn State Singers in the group's spring concert Saturday, May 4, at 8 p.m. in Schwab Auditorium. Dr. Leonard Raver, Chapel organist, will accompany the Singers and play several solos on the portable organ. The program will include music by Gabrieli, Bach, Byrd, and Purcell, in the manner of madrigal singers.

Three lectures, discussions listed

Three significant areas of current interest will be the subject of lectures and discussions May 6 and 7.

In the Graduate Lecture Series, Dr. Philip K. Hitti, retired professor of Semitic literature and chairman of the department of Oriental languages, Princeton University, will speak on the subject, "The Cultural Interrelation between Islam and the West," on May 7, at 8 p.m. in Room 121 Sparks.

Home economics

The 14th annual Home Economics Spring Weekend, on the theme, "Research Serves Families," will be held May 3-4.

Keynote address of the two-day event will be given Friday, May 3, at the banquet in the Nittany Lion Inn by Dr. John W. Schwada, dean of faculties, University of Missouri.

Events will get underway at 9:35 Friday. In addition to lectures on a variety of topics, exhibits, movies, and demonstrations will be available and tours of the Home Management houses and residence halls will be conducted at intervals on Friday afternoon and Saturday morning.

Among the faculty members to participate in lectures are Helen M. Albert, Dr. Ruth W. Ayres, Dr. Kenneth R. Beittel, Dr. Carlfred B. Broderick, Dr. Eleanor J. Caldwell, Virginia A. Campbell, F. Elizabeth Campbell, Dr. Vladimir de Lissovoy.

Dr. Barbara E. Densmore, Dr. Mary E. Fuqua, Dr. M. Geraldine Gage, Dr. Ruth E. Gates, Mrs. Helen A. Guthrie, Louise W. Hamilton, Dean Grace M. Henderson, Dr. Alida S. Hotchkiss, Dr. Dorothy Houghton, Dr. Lucile R. Hutton, Lurene M. Jochem, Dr. Marjorie J. Knoll, Dr. Joseph F. Krawiec, Dr. Ruth L. Pike, Dr. Elizabeth M. Ray, Mrs. Cecile P. Sinden, Mrs. Ruth H. Smith, Edna E. Sommerfeld, Mrs. Clarice G. Taylor, and Dr. A. Frank Tesi.

Faculty aides

A number of Faculty Aide Scholarships are still available and members of the faculty who wish to apply for a scholarship should obtain an application form from their respective vice-dean for instruction.

These scholarships, which are given to outstanding and worthy students who will be enrolled during the Summer Term, are intended to provide the recipient with the experience of working as an aide to a faculty member in activities which will advance them in their academic program and will assist the faculty member in his summer research or instructional program.

Additional information concerning the scholarships may be obtained from the Office of Student Aid, Ralph Krecker director, UN 5-6301.

Considered the outstanding scholar of Islamic affairs in this country, Dr. Hitti, who is now 76 years old, is making trips throughout the United States to acquaint university audiences with the history and culture of the Islamic world.

Born in Lebanon and educated at the American University of Beirut, Dr. Hitti came to this country in 1913 and obtained his doctorate at Columbia University in 1915. He taught at Columbia 1915-1919 and returned to teach at Beirut, 1919 to 1926. He joined the faculty at Princeton and developed one of the outstanding programs in his field over the next 28 years.

He is the general editor of Princeton Oriental Studies and has authored many works on oriental studies, including, "The Near East in History" (1961); "Syria: A Short History" (1959); "History of the Arab" (1957); and "Lebanon in History" (1957).

Soviet Positions

On May 6, a public discussion, "The United States and Soviet Positions on Arms Control and Disarmament," will be held at 3:30 p.m. in Schwab Auditorium.

Robert Matteson, senior advisor of the U. S. Arms Control and Disarmament Agency and adviser to the U. S. Delegation to the current 18-nation Disarmament Conference in Geneva, will present the U. S. side of the question.

Victor Karpov, first secretary of the Embassy of the Soviet Union, Washington, D. C., and adviser on disarmament, will give the Russian side.

A full opportunity for questions will be given after the speakers' presentations.

Church School Aid

Also on May 6, at 8 p.m. in Room 10 Sparks, a symposium on the question of Federal aid to church-related schools will be sponsored by the department of education services of the College of Education.

Featured speakers will be William D. Ball, general counsel for the Pennsylvania Catholic Welfare Committee and Paul Blanshard, author. Dr. J. R. Rackley, vice president in charge of resident education, will preside.

Summer theatre

Five plays have been scheduled for the University Theatre summer season, opening June 18 at Pavilion Theatre.

This will mark the sixth year of professional summer company which until now has been in operation at Maeter Playhouse at Standing Stone.

"We look forward to the opportunity to welcome playgoers to the new Pavilion Theatre," says Dr. Walter H. Walters, head of the theatre arts department, "although we leave the Maeter Playhouse with real regret."

The plays scheduled for the summer program are: "Waltz of the Toradors"; "Look Homeward Angel"; "Rhinoceros"; "Death of a Salesman"; and "Come Blow Your Horn."

Playgoers who would like to receive information on the summer season should drop a card to the Department of Theatre Arts, 202 Schwab, if they are not already on the mailing list.

The opening production in Pavilion Theatre will be "The Chinese Wall," by Max Fritsch, opening May 9. John O'Shaughnessy is directing.

PERSONNEL MATTERS

Leaves of absence for the following members of the faculty have been announced:

Harv M. Bobonich, assistant professor of chemistry at Pottsville Center, to continue work for his doctorate in chemistry at Syracuse University, until June, 1964.

Mrs. Lucille B. Pinto, instructor in German, from September until March 30, 1964, to work for a doctorate in Germanic philology at the University of Chicago.

Howard K. Slaughter, assistant professor of speech at the Altoona Campus, an extension of leave until June, 1964, to continue work on his doctorate at the University of Pittsburgh.

William L. Dulaney, instructor in journalism, one-year leave beginning Sept. 1, to work toward doctorate in journalism at Northwestern University.

Books

Donald E. Hardenbergh, professor of engineering mechanics, is author of the textbook, "Introduction to Dynamics," published by Holt, Rinehart, and Winston, Inc., of New York. The book is a text for the first course in dynamics for engineering students.

Accidents

While in the performance of their duties University employees are protected against accidents under the provisions of the Pennsylvania Workman's Compensation Act. Workmen's compensation coverage is provided by the Pennsylvania Manufacturers' Association Casualty Insurance Company. The pamphlet recently issued to each University employee entitled Workmen's Compensation and Occupational Disease Information explains in general the protection afforded, outlining the more pertinent information.

Of especial interest is the provision that affects an employee who goes outside Pennsylvania to work for a period of more than six months. If any employee in the course of his employment by the University is required to be outside Pennsylvania continuously for a period of more than six months he is not covered under the provisions of workmen's compensation.

A person contemplating continuous absence for a period beyond six months outside the commonwealth should advise the office of the insurance manager, 415 Old Main (telephone number UN 5-6307), in order that appropriate workmen's compensation coverage can be obtained. The cost of such out-of-state coverage can be determined so that, if indicated, the proper charge may be made against the appropriate grant or research contract.

Curie lecture

Dr. Mildred Cohn, professor of biophysics and physical biochemistry at the Johnson Foundation of the University of Pennsylvania will give the annual Curie Lecture, sponsored by Iota Sigma Pi, women's chemistry honorary society, Monday, April 29, at 8 p.m. in Room 101 Chambers.

She will speak on "Magnetic Resonance Investigations of Metal-activated Enzymic Reactions."

TRANSPARENCIES

The University Division of Instructional Services is sponsoring a demonstration on the preparation and use of transparencies for the overhead projector, Thursday, May 2, from 2:30 to 5 p.m. in Room 10 Sparks.

Robert Shuler, Technifax Corp., and Harvey Bair, Thermofax Corp., will be the principal speakers.

The demonstrations will include an explanation of the latest materials and overhead projection equipment that is available at the University for use in classes.

Faculty members having questions about the demonstration are invited to call Ron Slawson, television production specialist, Room 111C, Carnegie, UN 5-7548.

CALENDAR

Friday, April 26

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Prof. M. H. L. Pryce, department of physics, Bristol University, England, on "Spin-Phonon Coupled Waves."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Roy Britten, Terrestrial Magnetism Dept., Carnegie Institution of Washington, on "Non-Nuclear RNA Synthesis Duglena."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. B. T. Bernstein, American-Standard, Union, N. J. on "Effect of Conduction Electrons on the Temperature Dependence of Ultrasonic Velocity in Cubic Metals."

College of Agriculture Research Seminars, 4 p.m., HUB auditorium. Discussion by Dr. M. A. Farrell and John C. Frey on "Research and Needs of Pennsylvania—A Land and Water Resources Institute."

Fluid Mechanics Seminar 4 p.m., Room 232 Hammond. Dr. Owen M. Phillips, John Hopkins University, on "Inertial Waves in Rotating Fluids."

Colloquium sponsored by departments of philosophy and speech, 8 p.m., Room 214 Boucke. Dr. Maurice Natanson, distinguished visiting professor of philosophy and speech, on "Philosophy and Psychiatry."

Saturday, April 27

Spring Week parade, 2 p.m., on Pollock and Burrowes Rds., College Ave.; assembly begins at 1:30 p.m.

Sunday, April 28

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Carl Michelson, professor of theology, Drew University, on "How to Love Your Neighbor."

Hillel Graduate Association meeting, 8 p.m., Hillel Foundation. Dr. Henry Finch, philosophy, on "Are We Going to the Dogs?"

Monday, April 29

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Abram W. Vandermeer, dean, College of Education, on "Professional Accreditation in Education: Pros and Cons."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. Joseph Marin, on "Some New Evaluations on Mechanical Properties of Polymers."

Curie Lecture by Dr. Mildred Cohn, University of Pennsylvania, 8 p.m., Room 101 Chambers, on "Magnetic Resonance Investigations of Metal-activated Enzymic Reactions."

Tuesday, April 30

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. J. Verba, University of California at Los Angeles, on "Helium-3-Induced Reactions."

Varsity golf, vs. West Virginia, 1:30 p.m.

Thursday, May 2

Mathematics Colloquium, 4 p.m., Room 109 Osmond. Prof. N. J. Fine, University of Pennsylvania.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. M. L. Bender, Northwestern University, on "Intramolecular Catalysis of Organic Reactions."

Student Survey

This is the fourth in a series of articles on the Student Attitude Survey conducted by the Student Affairs Research office in 1962.

The more than a thousand students who responded to the 1962 Student Attitude Survey administered by the Student Affairs Research Office were asked in a series of 27 different items for their opinions on their courses in general, lecture courses, overcrowded classes, and about their major field of study.

Given a list of ten items, the students were asked to indicate what they considered the "three most important faults" of the courses that they had taken here, ranking them A, B, and C. The list of items and the percentages for each ranking are:

	Per Cent		
	A	B	C
1. The instructors and professors do not care	5	5	7
2. Too many of them have been large lecture courses	11	9	8
3. They have been too overcrowded	8	9	9
4. They have too often been taught by graduate assistants	20	11	11
5. There has been too much emphasis on grades	15	16	16
6. There was no opportunity for independent thinking and work	9	10	8
7. There was too much emphasis on rote learning	14	16	13
8. Too many of them have been television courses	1	2	3
9. There has been no opportunity to discuss things with the prof.	13	16	16
10. The outside assignments have not been meaningful	4	6	9

Four items apparently stand out as problems in the minds of the students: "graduate assistants teaching"; "emphasis on grades"; "emphasis on rote learning"; and "no discussion." They received almost equal support across the three ratings, although "too often taught by graduate assistants" was a strong first choice.

GPA—there was little variation from Total Response, although students in GPA-2 placed "grades" as first choice and GPA-5 ranked "rote learning" first.

College—Education students ranked "large lecture courses" as first choice; DOC students gave equal importance as first choice to "large lecture courses" and "grades." Otherwise, the pattern of Total Response was maintained across the colleges, although rankings varied somewhat.

Lecture Classes

"Students learn as much in lectures as they learn in discussion type courses."

Total—In this, the first of six items related to large lecture classes and overcrowded classes, the students strongly agreed, 3%; agreed, 27%; disagreed, 16%; and strongly disagreed, 24%. Total agreement, 30%.

GPA—more than half the students disagreed in all groups, but the variation ranged from 57% (GPA-6) to 78% (GPA-2).

"Most of the large lecture courses that I have had have been . . ."

Total—response was 8% for "excellent"; 62% for "good"; 25% for "poor"; and 5% for "extremely poor." Little variation from Total Response was noted in other variables, except that only slightly more than half of Mineral Industries students thought such courses were excellent or good.

"There are too few straight lecture courses."

Total—strongly agree, 2%; agree, 13%; disagreed, 73%; strongly disagreed, 12%.

"By and large, the classes I have been in at Penn State have not been overcrowded."

Total—strongly agree, 1%; agree, 18%; disagree, 36%; strongly disagree, 12%.

GPA—agreement did not follow a pattern, but ranged from 53% for GPA-3 to 10% for GPA-6.

Year—sophomores indicated 12% agreement, seniors 59%.

College—Education students showed 37% agreement, Mineral Industries, 64%.

"The student-teacher ratio is just right."

Total—strongly agree, less than one per cent; agree, 21%; disagree, 63%; strongly disagree, 16%.

College—Students in Education, 88% disagreement, highest across the board; Engineering students, 65%, the lowest indicated.

"In many of my classes, I have felt like just another face in the crowd."

Total—strongly agree, 16%; agree, 51%; disagree, 29%; strongly disagree, 1%.

GPA—there was considerable variation in agreement, ranging from 51% for GPA-6 to 87% for GPA-1.

College—agreement varied from 57% for Chemistry and Physics to 80% for Physical Education.

College Work in General

A series of seven items sought attitudes towards class work in general.

"Most of what I have learned at Penn State has not been a result of my courses."

Total—strongly agree, 4%; agree, 16%; disagree, 70%; strongly disagree, 10%. Variations from Total Response were not great among the various variables.

"I sometimes feel that most of my time in classes is wasted."

Total—strongly agree, 7%; agree, 35%; disagree, 52%; strongly disagree, 6%. Little variation among the variables except that students in GPA-1 indicated least disagreement, 39%; students in GPA-5, showed most agreement, 66%.

(Continued on next page)

Grants, Contracts, and Agreements

(A summary of recently received contributions, awards, and research contracts)

IN CHARGE	DONOR AND PURPOSE	AMOUNT
F. H. Lewis	Diamond Alkali Co. for fruit research at Arendtsville	\$1,000
Thomas Wartik	Esso Research and Engineering Co. for graduate training and research in chemistry	3,500
M. R. Fenske	E. I. duPont de Nemours, chemical engineering research and education	3,000
R. J. Snetsinger	Shell Chemical Co., studies of insecticides and mushroom insects	1,200
J. H. Hoke	The Engineering Foundation, for stress corrosion and hydrogen embrittlement studies	9,000
A. J. Ferraro	National Science Foundation, D-Region by wave interaction technique	19,600
W. R. Buessem	Sprague Electric Co., for graduate fellowship in field of oxide dielectric	3,100
R. G. Cunningham	Ford Motor Co., gift of two engines	600
A. E. Neyhart	Automotive Safety Foundation, for motor fleet supervisor training programs	7,500
W. I. Thomas	U. S. Atomic Energy Commission, differential element accumulation by maize	31,944
P. L. Walker	U. S. Atomic Energy Commission, on graphites and graphitization	52,386
E. L. Keller	Penna. Dept. of Public Welfare, for institute for probation work with children	2,250
E. E. Klaus	Air Force Systems Command, for fluids and lubricants studies	381,170
F. W. Schmidt	General Electric Co., gift of evaporation test apparatus	5,200
E. F. Osborn	Bethlehem Steel Co., for phase equilibrium studies	10,000
R. Pepinsky	Office of Naval Research, donation of equipment	20,475
J. J. Schanz	Continental Oil Co., for petroleum economics fellowship	3,000
A. F. Ferraro	N.A.S.A., for conference on wave interaction	6,003
H. W. Leibowitz	U. S. Public Health Service, for fellowship supply grant	463
Joseph Jordan	U. S. Public Health Service, for studies on voltammetry of oxygen and carbon dioxide	1,128
Rustum Roy	Office of Naval Research, for crystal chemistry at high pressure	30,500
I. C. Hisatsune	U. S. Bureau of States Service, for studies on structures of oxides of nitrogen	24,305
Wm. Spackman	Bethlehem Steel Co., for petrographic studies of coal	10,000

"In general, competition for grades promotes better learning in course work."

Total—strongly agree, 4%; agree, 36%; disagree, 47%; strongly disagree, 13%. **Total agreement**, 40%.

GPA—only students in GPA-6 indicated greater than 50% agreement (58%);

GPA-1 group showed only 35% agreement.

Year—only freshmen varied from **Total Response**, 48% agreeing.

College—Mineral Industries students indicated highest agreement, 52%; Physical Education students the least, 16%.

"Of the courses I have taken here, I would consider the following per cent to have been excellent . . ."

Total—more than 90 per cent, 6%; around 75 per cent, 30%; about half, 29%; about one fourth, 26%; less than ten per cent, 9%. The median point, in other words, is at about half of the courses.

GPA—The GPA-6 group was the only group to vary significantly from total response; 48% said "around 25%" or "less than ten per cent."

Year—freshmen indicated most favorable attitude and sophomores least favorable.

College—Chemistry and Physics students showed the most favorable attitude, 12% indicating that "more than 90%" of their courses were excellent. Colleges with a high modal response were Agriculture, Business Administration, Chemistry and Physics, Engineering, and Physical Education. Colleges in the middle range were Education, Home Economics, and Mineral Industries. Liberal Arts and DOC indicated lowest modal response.

Sex—men gave somewhat more favorable responses than women.

"The academic training which a student obtains from Penn State is . . ."

Total—excellent and exciting, 8%; adequate and exciting, 35%; adequate but unexciting, 54%; inadequate and unexciting, 3%. **GPA**—more GPA-6 students (44%) chose "adequate and exciting" than did GPA-1 students (17%). GPA-1 students put more emphasis (70%) on "adequate but unexciting."

GPA-6 students gave equal weight to "adequate and exciting" and "adequate but unexciting."

College—Chemistry and Physics students gave the highest rating (15%) among the Colleges for "excellent and exciting."

"The academic atmosphere at Penn State has measured up to my personal expectations of what it should be."

Total—strongly agree, 6%; agree, 57%; disagree, 31%; strongly disagree, 6%.

"The main trouble with my education here has been that there have been too few tough courses and too many easy ones."

Total—strongly agree, 2%; agree, 9%; disagree, 66%; strongly disagree, 23%. **Sum of disagreement**, 89%.

GPA—disagreement ranged from 100% for GPA-1 to 81% for GPA-6.

College—DOC students exhibited strongest disagreement, 97%; Liberal Arts students the least, 79%.

Major

"How do you feel about your major or probable major?"

Total—very interested, 62%; fairly interested, 30%; indifferent, 6%; very indifferent, 2%.

GPA—52% of GPA-1 students said "very interested"; 74% of GPA-6 students did so. **Year**—from freshmen (55%) to seniors (69%), the response to "very interested" varied directly.

College—choice of "very interested" varied from 48% for Home Economics to 80% for Physical Education.

"I feel that the courses that I have taken as a part of my major curriculum are well integrated and form a meaningful unit."

Total—9% strongly agree; 63% agree; 24% disagree; 4% strongly disagree.

"There should be more emphasis in college on teaching American ideas and values."

Total—strongly agree, 18%; agree, 57%; disagree, 23%; strongly disagree, 2%. **Total agreement**, 75%.

GPA—agreement varied from 83% for GPA-1 to 58% for GPA-6.

College—Home Economics students expressed more than 90% agreement.

(Note: no other questions were asked which reflected attitudes on teaching other basic subject matter. It may well be that students would have expressed inadequacies in many areas of their knowledge.)

Summary

Attitudes about courses, classes, and curriculums showed some dissatisfaction, much gratification.

Students agree that most of the large lecture courses they attended have been good, but they don't think students learn as much in lectures as they learn in discussion-type classes and they don't think there are "too few" straight lecture courses.

There is divided opinion on whether their classes were overcrowded, but nearly 80 per cent said they didn't feel that the student-teacher ratio was "just right." (They had no opportunity to say what they thought it should be, however.) When they were asked to select the three most important faults of the courses they had taken, the matter of overcrowdedness did not rate very high.

The four faults students did rate high were: "courses too often taught by graduate assistants"; "too much emphasis on grades"; "too much emphasis on rote learning"; "no opportunity to discuss things with the prof."

Generally, the students do not feel that "most of my time in classes is wasted" but what might be a significant group (41%) did think so.

They didn't think competition for grades "promotes better learning in course work."

In the main, they are pleased with their major field and think their program is "well integrated."

faculty BULLETIN

Vol. 50, No. 39 April 26, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Credit union

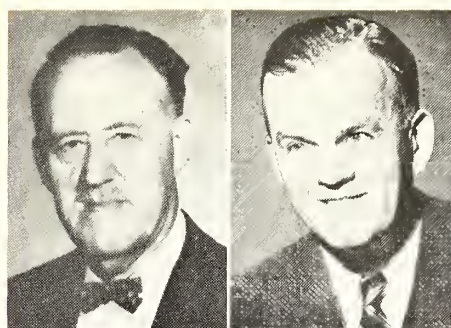
In four years, membership in the University Park Federal Credit Union has grown from a handful of University faculty and staff members to more than 400 share holders who have invested more than \$70,000.

Since inception of the Union in 1959, more than \$185,000 has been loaned to members at modest interest rates.

Membership in the Credit Union is contingent on three factors: the person's name must appear regularly on the University payroll, a 25-cent membership fee, to cover expenses of records, is charged, and at least one \$5 share must be purchased. All members who meet the three qualifications may invest any amount with the Credit Union at four per cent interest.

Members receive at no extra cost life insurance on all money invested up to \$2,000 limit. They may also make loan applications at any time, and, in the past, such loans have been made for purchase of cars, for medical expenses, educational expenses, purchases of furniture, vacations, etc. Life insurance is also provided at no cost to the borrower in the amount of his loan.

Officers elected at the recent annual meeting of the Credit Union are Ernest Bergman, president; James Vitale, vice president, John Dalbor, secretary; Lawrence Marriot, treasurer. Elected to the board of directors were Clarence Thurber, Richard Allen, and Robert Bealer. All are University faculty or staff members.



Blanshard

Ball

Ball-Blanshard

A symposium on Federal Aid to Church-Related Schools will be conducted Monday, May 6, at 8 p.m. in Room 10 Sparks.

William D. Ball, general counsel for the Pennsylvania Catholic Welfare Committee and Paul Blanshard, author, will be featured speakers.

An opportunity for questioning from the audience will be available following the talks.

Whaling

Edouard A. Stackpole, curator of the Marine Historical Association, Mystic Seaport, Conn., will lecture on "The American Whalers," and a film titled "Whaler Out of New Bedford" will be shown Tuesday, May 7, at 7:30 p.m. in the HUB Assembly Room.

The lecture and film are sponsored by the Liberal Arts Student Council and the office of the associate dean, College of the Liberal Arts.

Stackpole, native of Nantucket Island, is a descendant of Nantucket whalers. He was associate editor of the Nantucket paper, *Inquirer and Mirror*. He was recipient of a Guggenheim Fellowship in 1951, enabling him to write a definitive history of the early period of the American whaling industry, under the title, "The Sea Hunters." He became curator of the Marine Historical Association and the Mystic Seaport in 1953.

He is the author of many fiction and non-fiction publications, including "For Those in Peril on the Sea," published this year by Dial Press, and "Nantucket Rebel," which will be published this summer.

The film to be shown was the winner of a number of awards in film festivals in 1962. It is based on "The Original Panorama of a Whaling Voyage Round the World," a canvas 1300 feet long, painted by Benjamin Russell of New Bedford in 1848, after a four-year voyage on the whaleship "Kutusoff."

Math meeting

The annual Spring Conference of Commonwealth Campus Mathematics Teachers will be held today (Friday) and tomorrow, coinciding with the 37th meeting of the Allegheny Mountain Section of the Mathematical Association of America.

Commonwealth Camps teachers will hold sessions in Room 2H, HUB, 2-5 p.m. Dr. J. R. Rackley, vice president for resident instruction, will discuss the College of Science being organized. Other speakers will include Dr. J. B. Bartoo, head of the department of mathematics, L. T. Dunlap, Anton Glaser (Ogontz), and a discussion of acceleration and enrichment for associate degree students.

Dinner at the Autoport Restaurant will include a presentation, "Modern Music," by Dr. Leonard Raver, Chapel organist.

The Association meetings will be held Saturday. At 10 a.m., Nathan J. Fine, University of Pennsylvania, will speak on "An Elementary Arithmetic Measure." In the afternoon session, R. H. Bing, of the Institute for Advanced Study and the University of Wisconsin and president of the M.A.A., will speak on "Spheres in E-3."

President named

Supported by a National Science Foundation grant totalling \$300,000, the American Society for Engineering Education has launched a three-year survey of curricula in engineering schools and the entire range of the engineers' responsibility in government and industry.

President Walker has been appointed project director of the overall study. Dr. George A. Hawkins, dean of engineering and the mathematical sciences at Purdue University, has been named to head a team of engineering professors to evaluate undergraduate engineering education, and Dr. Joseph M. Pettit, dean of engineering, Stanford University, will direct an investigation of graduate education for engineers.

Grucci taped

The program of poetry reading and interview done by Joseph L. Grucci, associate professor of English and director of the Poetry Workshop, for television station WQED, Pittsburgh, was taped and will be shown from 8:30 to 9:00 a.m. Saturday, May 4, on WFBG-TV, Altoona, Channel 10.

Grucci read from his latest book of poetry, "The Invented Will," and was questioned by a panel of critics.

Wyomissing has unusual program

TWO employee training programs will be initiated in June by the Wyomissing Center staff for the Textile Machine Works of Wyomissing and one of the more unusual aspects of the programs is that some of the students will qualify for a tuition refund according to the grades they receive in their courses.

In program "A," young men will undergo an apprentice training in the skilled machine shop trades, with continuous apprentice training during the day and class attendance two evenings per week at the Center. They will take "Fundamentals of Industrial Technology," which is described as basically a combination of machine design and electronics courses, for three years.

Students in program "A" will pay no tuition. At the end of slightly less than four years they will be offered a continued employment opportunity at the Machine Works. They will receive a Penn State certificate at the completion of their three-year program and a journeyman's certificate at the end of the apprenticeship period.

Program "B" will enroll a limited number of selected young men who will attend classes full time at the Center in the associate degree program and work at the Machine Works during University vacation periods. Initially they will pay their own tuition but will have part or all refunded according to the grades they receive. Honor students will receive a full refund.

On completion of the associate degree program the technical apprentices may continue working for the company in the field of their individual training or transfer to the company's apprentice program with advanced standing.

High-ranking high school graduates with a mathematics-science background, as well as a technical and engineering interest, will be considered for the selected group.

The new evening program was developed by the University from a curriculum designed by Chauncey R. Kay, assistant professor of engineering at the Center. Development of the two-pronged program was accomplished by officials of the Textile Machine Works and the following faculty and staff members of the University:

William A. Dunn, assistant professor of engineering in Continuing Education; Robert E. McCord, director of Continuing Education in Engineering; and Ronald Bornmann, district administrator in Continuing Education.

Dr. Harold W. Perkins is director of the Wyomissing Center.

Ag seminars

Teaching and research and cooperative research were topics of two recent College of Agriculture Seminars. The series of seminars continues during the Spring Term, the next program being scheduled for May 10 at 4 p.m. in the HUB assembly room.

The panel on the subject of teaching and research consisted of Dr. Richard D. Schein, Dr. C. O. Claggett, and Dr. Stuart Patton. Moderator was Dr. E. B. Hale.

Dr. Claggett said that a teaching program is not very effective if the individual has not invaded the laboratory or dirtied his hands except with chalk dust since receiving his degree, and urged the instructor to do research to keep up with the frontiers of knowledge.

Admitting the complexity of getting all the teaching, research, and administrative jobs done in a department, Dr. Schein suggested that: (1) general courses be taught by a cadre of teachers who have this teaching as their main and acknowledged function; (2) advanced courses should be taught by researchers; and (3) no man should have more than two roles and 70 per cent of his time should be allotted to one of the two roles.

Dr. Patton offered three suggestions: (1) individuals and administrators should take especial care in making decisions as to how time is spent; (2) development of small interdisciplinary research laboratories with uninterrupted programs should be encouraged; (3) students should be brought into contact with the research process to as great an extent and in as many ways as possible.

The panel discussing the question of cooperative research included Dr. E. L. Bergman, Dr. R. F. Gentry, and Dr. J. S. Boyle, with E. G. Buss as moderator.

Teamwork in research, which is not new but is showing increased development, is necessary to solve the complex problems of research, today, many of which are beyond the skill and capacity of individual researchers, the panel said.

A closer cooperation between research and extension people was urged.

PERSONNEL MATTERS

Gregory Ain, nationally-known architect of Los Angeles, will become professor and head of the department of architecture, effective July 1.

Self-employed as an architect on the West Coast since 1935, Ain is a native of Pittsburgh. He has served as guest lecturer at the University of California in Los Angeles, Washington State, California Polytechnic Institute, the Museum of Modern Art in New York, and as visiting critic at the University of Southern California since 1949. He was a visiting critic at Penn State in October 1962.

He studied mathematics and physics at U.C.L.A. 1924-26 and architecture at Southern California 1926-27. His works have appeared in leading U. S., European and South American publications and he was one of four American architects whose model homes were erected in the Museum of Modern Art Garden in New York.

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition since 1952, will retire July 1 with emerita rank. She was nutritional supervisor for the Rochester Child Health Institute and nutrition consultant in the section of pediatrics of the Mayo Clinic, Rochester, Minn., before coming here.

Miss Lowenberg is recognized nationally and in many other countries as an authority on child feeding. She was the recipient of the Iowa State College Club of Chicago Alumni Merit Award in 1958; was given the Alpha Gamma Delta sorority National Distinguished Citizen Award in 1959; and in 1960 received the Hood College honorary doctor of science degree.

Books

Frank Kocher, instructor in mathematics, with Ralph Heimer, former research associate in the Division of Instructional Services, and John J. Lottes, former assistant in the Division, are authors of a series of programmed algebra textbooks, "A Program in Contemporary Algebra" published by Holt, Rinehart, and Winston, Inc., New York. Four volumes have already been issued; the fifth will appear soon.

The programmed material for the series was prepared as part of a project on programmed learning supported by the National Defense Education Act. The project was directed by Dr. C. R. Carpenter and Dr. L. P. Greenhill.

Capital gifts campaign approved

A capital gifts campaign for funds to construct one or more buildings has been approved in principle by the Board of Trustees. The actual campaign would probably not be launched officially for another year or two.

President Walker said this week that the action taken by the Board will make it possible for University officers to begin work on many of the details which precede such a campaign.

Specifically mentioned in the considerations by the Board were: (1) an auditorium seating 3,000; (2) an assembly hall with a capacity of 16,000; (3) completion of the All-Faith Chapel with a seating capacity of 1,500.

The Executive Committee of the Board took the action on the campaign on the recommendation of the Committee on Endowments and Gifts. The Executive committee authorized that work be started on suitable sketch plans and renderings for the three structures and on other preliminary activities essential to determining when and under what conditions a proposed capital gifts campaign might be launched.

The proposed size of the auditorium is considered in relation to acoustics problems. The assembly hall would meet the need for indoor commencement exercises, major indoor sports events, and other activities.

Photobiology

Dr. Jerome J. Wolken, visiting lecturer in biophysics, will present a series of seminars on the subject of photobiology, beginning Monday at 2:20 p.m. in Room 300 Walker.

The first lecture is titled "Locomotion." Subsequent lectures and times are: May 10, 11:10 a.m.—Photoreceptor Structures; May 13, 2:20 p.m.—Photosynthesis; May 20, 2:20 p.m.—Photosynthesis; May 21, 11:10 a.m.—Vision; and May 27, 2:20 p.m.—Photoexcitation.

Tennis exhibition

Billy Talbert, one of the all-time great American tennis players, will present an exhibition of tennis doubles, with the cooperation of the Penn State varsity players, Saturday at 3 p.m. at the Varsity Courts near the Ice rink.

Fellowships

National Science Foundation fellowships of various types have been awarded to a number of Penn State students and others for study here.

A total of 16 students have been offered NSF Cooperative Graduate Fellowships for graduate study during the 1963-64 year. These awards are in addition to the nine previously announced Regular Graduate Fellowships. Nine of the 16 to receive Cooperative Fellowships are present graduate students, two are seniors, and five are seniors at other institutions. Nine of the total are in chemistry, two in solid state technology, and one each in aeronautical engineering, chemical engineering, electrical engineering, ceramic technology, and geology.

Eight graduate students who are now or were for a year teaching assistants have been awarded Summer Fellowships for Former Graduate Teaching Assistants. The award enables a student who has been a teaching assistant to devote full time to graduate study during the summer. Three of these awards were made in chemistry, two in mathematics, and one each in geology, physics, and zoology.

CALENDAR

Friday, May 3

Fourteenth Annual Home Economics Spring Weekend program begins at 9:30 a.m. Exhibits, demonstrations, lectures, tours, and movies continuing until 4 p.m., Saturday. Banquet, 6:30 p.m., featured speaker, Dr. J. W. Schwada, University of Missouri Dean of Faculties.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Donald E. Gault, research scientist, Ames Research Center of N.A.S.A., on "Recent Investigations of Hyper-Velocity Impact."

Varsity baseball, vs. Lafayette, 3:30 p.m.; varsity tennis, vs. Georgetown, 3:30 p.m.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. B. L. Cohen, University of Pittsburgh, on "Nuclear Structure Studies with Stripping Reactions."

Saturday, May 4

Penn State Singers concert, directed by Raymond Brown with Dr. Leonard Raver and orchestra, 8 p.m., Schwab Auditorium.

Varsity track, vs. Ohio State, 1 p.m.; varsity baseball, vs. Army, 1 p.m.; varsity lacrosse, vs. Syracuse, 3:30 p.m.

Sunday, May 5

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Ralph W. Sockman, director, The Hall of Fame for Great Americans, New York University, on "The Drama of Deliverance."

Monday, May 6

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. E. F. Osborn, vice president for research, on "Some Research Trends at Penn State."

Public discussion on "The United States and Soviet Positions on Arms Control and Disarmament," 3:30 p.m., Schwab Auditorium, by Robert Matteson and Victor Karpov, advisers respectively to the United States and Soviet Union at disarmament talks.

Discussion on Federal Aid to Church-Related Schools by William D. Ball and Paul Blanshard, 8 p.m., Room 10 Sparks, sponsored by department of education services.

Polymer Science Seminar, 4 p.m., Room 210 Hammond. D. E. Kline, on "Thermal Conductivity Studies of Polymers."

Biophysics Seminar, 2:20 p.m., Room 300 Walker. Dr. J. J. Wolken, on "Locomotion."

Tuesday, May 7

Graduate School lecture, 8 p.m., Room 121 Sparks. Dr. Philip K. Hitti, Princeton University emeritus, on "The Cultural interrelationship between Islam and the West."

Lecture and film on whaling, 7:30 p.m., HUB assembly room, sponsored by College of the Liberal Arts and Liberal Arts student Council. Edouard A. Stackpole, Marine Historical Association, on "The American Whalers," and film "Whaler out of New Bedford."

Biological Sciences Lecture Series, 3:55 p.m., HUB assembly room. Dr. Paul J. Kramer, Duke University, on "Water and Salt Absorption by Plants."

English Colloquium, 7:30 p.m., Nittany Lion Inn. Northrop Frye, professor of English and principal of Victoria College, University of Toronto, on "Action and Imagery in Poetry." Discussion and coffee hour to follow.

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. A. H. Federato, nuclear engineering, on "Nuclear Reactor Burst Behavior."

Thursday, May 9

Pavilion Theatre opening, "The Chinese Wall," by Max Frisch, directed by John O'Shaughnessy, 8 p.m.

Thespians show, "Bye-Bye Birdie," 8 p.m., Schwab Auditorium.

Psychology Seminar, talk by Dr. W. Robert Thompson, Wesleyan University, 8 p.m., Room 209 Home Economics South.

Physics Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. J. L. Franklin, Humble Oil and Refining Co., on "Chemistry of Rare Gas Ions."

Friday, May 10

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Thespians show, "Bye-Bye Birdie," 8 p.m., Schwab Auditorium.

College of Agriculture Seminar, 4 p.m., HUB assembly room. Charles E. Kellogg, assistant administrator, Soil Conservation Service, U.S.D.A., on "The Outlook for Agriculture."

Wyomissing has unusual program

TWO employee training programs will be initiated in June by the Wyomissing Center staff for the Textile Machine Works of Wyomissing and one of the more unusual aspects of the programs is that some of the students will qualify for a tuition refund according to the grades they receive in their courses.

In program "A," young men will undergo an apprentice training in the skilled machine shop trades, with continuous apprentice training during the day and class attendance two evenings per week at the Center. They will take "Fundamentals of Industrial Technology," which is described as basically a combination of machine design and electronics courses, for three years.

Students in program "A" will pay no tuition. At the end of slightly less than four years they will be offered a continued employment opportunity at the Machine Works. They will receive a Penn State certificate at the completion of their three-year program and a journeyman's certificate at the end of the apprenticeship period.

Program "B" will enroll a limited number of selected young men who will attend classes full time at the Center in the associate degree program and work at the Machine Works during University vacation periods. Initially they will pay their own tuition but will have part or all refunded according to the grades they receive. Honor students will receive a full refund.

On completion of the associate degree program the technical apprentices may continue working for the company in the field of their individual training or transfer to the company's apprentice program with advanced standing.

High-ranking high school graduates with a mathematics-science background, as well as a technical and engineering interest, will be considered for the selected group.

The new evening program was developed by the University from a curriculum designed by Chauncey R. Kay, assistant professor of engineering at the Center. Development of the two-pronged program was accomplished by officials of the Textile Machine Works and the following faculty and staff members of the University:

William A. Dunn, assistant professor of engineering in Continuing Education; Robert E. McCord, director of Continuing Education in Engineering; and Ronald Bornmann, district administrator in Continuing Education.

Dr. Harold W. Perkins is director of the Wyomissing Center.

Ag seminars

Teaching and research and cooperative research were topics of two recent College of Agriculture Seminars. The series of seminars continues during the Spring Term, the next program being scheduled for May 10 at 4 p.m. in the HUB assembly room.

The panel on the subject of teaching and research consisted of Dr. Richard D. Schein, Dr. C. O. Claggett, and Dr. Stuart Patton. Moderator was Dr. E. B. Hale.

Dr. Claggett said that a teaching program is not very effective if the individual has not invaded the laboratory or dirtied his hands except with chalk dust since receiving his degree, and urged the instructor to do research to keep up with the frontiers of knowledge.

Admitting the complexity of getting all the teaching, research, and administrative jobs done in a department, Dr. Schein suggested that: (1) general courses be taught by a cadre of teachers who have this teaching as their main and acknowledged function; (2) advanced courses should be taught by researchers; and (3) no man should have more than two roles and 70 per cent of his time should be allotted to one of the two roles.

Dr. Patton offered three suggestions: (1) individuals and administrators should take especial care in making decisions as to how time is spent; (2) development of small interdisciplinary research laboratories with uninterrupted programs should be encouraged; (3) students should be brought into contact with the research process to as great an extent and in as many ways as possible.

The panel discussing the question of cooperative research included Dr. E. L. Bergman, Dr. R. F. Gentry, and Dr. J. S. Boyle, with E. G. Buss as moderator.

Teamwork in research, which is not new but is showing increased development, is necessary to solve the complex problems of research, today, many of which are beyond the skill and capacity of individual researchers, the panel said.

A closer cooperation between research and extension people was urged.

PERSONNEL MATTERS

Gregory Ain, nationally-known architect of Los Angeles, will become professor and head of the department of architecture, effective July 1.

Self-employed as an architect on the West Coast since 1935, Ain is a native of Pittsburgh. He has served as guest lecturer at the University of California in Los Angeles, Washington State, California Polytechnic Institute, the Museum of Modern Art in New York, and as visiting critic at the University of Southern California since 1949. He was a visiting critic at Penn State in October 1962.

He studied mathematics and physics at U.C.L.A. 1924-26 and architecture at Southern California 1926-27. His works have appeared in leading U. S., European and South American publications and he was one of four American architects whose model homes were erected in the Museum of Modern Art Garden in New York.

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition since 1952, will retire July 1 with emerita rank. She was nutritional supervisor for the Rochester Child Health Institute and nutrition consultant in the section of pediatrics of the Mayo Clinic, Rochester, Minn., before coming here.

Miss Lowenberg is recognized nationally and in many other countries as an authority on child feeding. She was the recipient of the Iowa State College Club of Chicago Alumni Merit Award in 1958; was given the Alpha Gamma Delta sorority National Distinguished Citizen Award in 1959; and in 1960 received the Hood College honorary doctor of science degree.

Books

Frank Kocher, instructor in mathematics, with Ralph Heimer, former research associate in the Division of Instructional Services, and John J. Lottes, former assistant in the Division, are authors of a series of programmed algebra textbooks. "A Program in Contemporary Algebra" published by Holt, Rinehart, and Winston, Inc., New York. Four volumes have already been issued; the fifth will appear soon.

The programmed material for the series was prepared as part of a project on programmed learning supported by the National Defense Education Act. The project was directed by Dr. C. R. Carpenter and Dr. L. P. Greenhill.

The Arts

pavilion theatre

John O'Shaughnessy, distinguished visiting professor of theatre for the Spring Term, who is directing the first production for the new Pavilion Theatre, has many directing credits and is equally at home as a teacher. He has academic experience at the American Theatre Wing, the New Theatre School, the Neighborhood Playhouse in New York, and is a frequent lecturer at Boston University. He directed the debut productions at Houston Playhouse, the first arena theatre built in this country.

Max Frisch's "The Chinese Wall," a farce, is the opening show at Pavilion Theatre. Ten performances will be given between first night, May 9, and closing date, May 18. A Saturday matinee will be given May 11.

Tickets are on sale at Pavilion box office. Phone orders may be placed by calling UN 5-6309.

music

Music events for the month of May will include the following features:

Saturday, May 4, the Penn State Singers concert, directed by Raymond Brown, Schwab Auditorium, 8 p.m.

Wednesday, May 8, Denis Stevens, distinguished visiting professor of music, will lecture on "Monteverdi's Vespers of 1610," at 8 p.m. in Little Theatre, Old Main.

Sunday, May 12, Frank Gullio will direct the Men's Glee Club at 3 p.m. in Schwab in the annual spring concert.

Wednesday, May 15, the Alard String Quartet, in residence at the University, will present a concert at 8:30 p.m. in Schwab.

Saturday, May 18, the University Chapel Choir and University Symphony, directed by Denis Stevens, will present Monteverdi's "Vespers of 1610" and Vivaldi's Concerto Grosso in B Minor.

Sunday, May 19, W. Paul Campbell will direct the Women's Chorus in concert at 1 p.m. in Schwab Auditorium.

Saturday, May 25, James Beach directs the Meditation Chapel Choir program at 8 p.m. in The Chapel.

Sunday, May 26, Theodore Karhan will direct the University Symphony Orchestra, with Donald Hopkins, violinist, and Raymond Page, violist, of the Alard Quartet, featured in Mozart's Symphonie Concertante, at 3 p.m. in Schwab.

The concert by the Penn State Singers tomorrow will include music from the middle 16th-century to Claude Debussy. Gabrieli's "Kyrie and Gloria" from the Sacrae Symphoniae will open the program. Madrigals and motets by Heinrich Schuetz, Agostino Stefanni, Henry Purcell, Georg

Gottfried Mueller, J. S. Bach, Thomas Morely, John Willby, William Byrd, Thomas Weelkes, Michael East, Debussy, and Anton Bruckner will be included.

Soloists will be Dale Livingston and Nancy Keller, of State College, and Prudence della Cioppa, Joseph Krimmel, Josephine Sbarbaro, David Watkins, and Dorothy Muller.

Dr. Leonard Raver, Chapel organist, will accompany some numbers and play several solo works on the portable organ. The accompanying small orchestra will include violins, led by Donald Hopkins, and violas, led by Raymond Page, both of the Alard Quartet, and basson, cello, recorders, trumpets, trombones, and oboe.

Denis Stevens' lecture on May 8 will be in the nature of preparation for the performance May 18 by the Chapel Choir and Symphony Orchestra of Monteverdi's "Vespers of 1610."

Although there have been many arrangements of this work, now recognized as one of the great choral masterpieces of all times, Stevens has chosen to interpret the music as he feels Monteverdi intended it to be sung. To do so, he has studied the liturgical and historical background of the work and it is this background which he will illustrate with tapes and slides in his lecture May 8.

This is the concluding lecture in the five-part series Stevens has given since January.

thespian show

"Bye Bye Birdie," a two-year success on Broadway written by Lee Strauss and Charles Adams, is the Penn State Thespians' spring musical show which will play next Thursday, Friday, and Saturday in Schwab Auditorium.

The show is a satire on a rock-and-roll type singer about to be drafted into the army. The singer's manager attempts a publicity build-up by having the singer plant "One Last Kiss" on an admiring fan. The trials and tribulations in bringing off the stunt in a small rural town are the bases for the show.

James Jimirro, instructor in speech, is the producer.

Tickets will go on sale at the HUB desk Monday at 1:30 p.m. and are priced at \$1.25 for the Thursday performance and \$1.50 for the Friday and Saturday performances at 8 p.m. and the Saturday matinee at 2 p.m. All seats are reserved.

Grants

(A summary of recently received contributions, awards, and research contracts.)

H. K. Schilling, various departments, \$177,000, N.A.S.A., for support in training about 10 graduate students in space related science and technology.

M. L. Zeigler, Student Affairs Research, \$2,500, Penna. Dept. of Public Instruction, for scoring of high school equivalent examinations.

Philip A. Klein, Mineral Economics, \$16,965; Resources for the Future, Inc., for study, Mineral Supply and the Business Cycle.

William H. Powers, chemistry and physics continuing education, National Science Foundation, \$41,540, for in-service institute in science and mathematics for teachers.

C. D. Stahl, petroleum engineering, Continental Oil Co., \$3,000 for fellowship in Petroleum Engineering for 1963-64.

F. A. Hummel, ceramic technology, Anchor Hocking Glass Corp., \$3,925 for graduate fellowship in ceramic technology.

R. P. Pfeifer, agronomy, Latrobe Brewing Co., \$1,000 for research on malting barley.

D. E. Baker and E. L. Bergman, horticulture, National Plant Food Institute, \$1,000 for research on soils and plant nutrition.

F. R. Axelson, engineering experiment, Penna. Dept. of Property and Supplies, \$6,921, for Fuels Advisory Service.

F. H. Lewis, Ardentisville, Diamond Alkali Co., \$1,000, for fruit disease research at Ardentisville.

—Olin Mathieson Chemical Corp., \$975, for fruit disease research at Ardentisville.

—E. I. du Pont de Nemours, \$500, for fruit disease control research.

—California Chemical Co., \$1,000 for fruit disease research.

—Union Carbide Chemicals Co., \$500, for fruit disease research.

R. W. Lindsay, metallurgy, Ford Motor Co., \$800, for Cooperative Program in Metallurgy.

—E. I. du Pont de Nemours, \$800, for Cooperative Program in Metallurgy.

—Armco Foundation, \$800, for Cooperative Program in Metallurgy.

William Spackman, geology, Cities Service Research and Development Co., \$1,000, for publication of fossil spores and pollen catalog.

H. B. Palmer, fuel technology, Union Carbide Olefins Co., \$3,500, for basic research on fuel properties.

H. K. Fleming, C. B. Smith, and L. T. Kardos, Agriculture, California Chemical Co., \$500, for soil management studies in Concord grape vineyard.

Karl Guengerich, chemistry, Atomic Energy Commission, \$28,391, for high temperature properties of titanium and zirconium phosphides.

J. V. Hottel, educational services, U. S. Office of Education, varied amounts for four graduate fellowships in connection with mentally retarded program.

ITEMS OF INTEREST

Elected and Appointed

DEVINNEY, R. N., English at Allentown, selected judge, for fifth successive year, of National Debate Tournament at U. S. Military Academy at West Point.

HEIDE, E. E., New Kensington, elected president of the New Kensington Rotary Club.

HOWELL, B. F., Jr., geophysics, elected President, Seismological Society of America, at the annual meeting in Berkeley, Calif.

REAB, H. J., metallurgy, elected vice-president of the Electrochemical Society.

SMITH, H. A., secondary education, elected president-elect of the Association for the Education of Teachers in Science, a section of the National Science Teachers Association.

WOOD, MERRILL, zoology and entomology, re-elected president of the Eastern Bird Banding Association at East Stroudsburg meeting April 20.

HATCHER, HAZEL M., economics education, awarded the Penna. Dept. of Public Instruction's Certificate of Merit for outstanding or unique programs in the education field.

The Arts

DOGGERT, L. A., emeritus electrical engineering, first place for painting of the United Nations Building in the Motorola Regional Non-Professional Art Exhibition.

Lectures and Talks

DAMFERT, W. A., English, "An Extra Communication Step Toward the Future," at the Eastern Regional meeting of the American Business Writing Association in New York, April 20.

DICKSON, H. E., art history, "A Most Honest Abe," at a meeting of "The Keystone," a public affairs and Penna. history group, in Harrisburg.

DUNLAP, L. T., mathematics, "Becoming a Liberal Arts College," at East Stroudsburg State College.

FRICK, J. V., clinical speech, "Stuttering" at the annual convention of the Pennsylvania Speech and Hearing Association at Harrisburg.

JENNINGS, MARGARET B., foods and nutrition, "Family Meals—A Challenge in Human Relations," at the annual meeting of the South Dakota State Home Economics Association, April 19 and 20.

JOHNSTONE, H. W., JR., philosophy, "Self-Refutation and Validity," for an Emory University philosophy seminar.

MCDONALD, E. T., speech and hearing clinic, "Parental Counseling," at the fourth annual convention of the Pennsylvania Speech and Hearing Association in Harrisburg.

MINDER, T. L., engineering library, "Automation in the Library," at meeting of the Central Section of the Pennsylvania Library Association at Indiana State College.

NEUBERT, V. H., engineering mechanics, on a panel on analysis of shock response of structures at the joint meeting of the Society of Automotive Engineers and the American Society of Naval Engineers, in Washington, D. C.

Articles and Papers

NIEBEL, B. W., industrial engineering, "Man and Machine Relationships in Industrial Enterprises," before the Harrisburg area chapter of the American Institute of Industrial Engineers.

OLIVER, R. T., speech, "Culture and Communication," at Kent State University.

—"The Responsibilities of the Speech Profession" at a joint meeting of the Tennessee Speech Association and the Southern Speech and Hearing Association, Nashville, Tenn.

REAB, H. J., metallurgy, "Instrumentation and Its Relationship to Electroplating and Metal Finishing," at the 24th annual New England regional meeting of the American Electroplaters' Society at Hartford, Conn.

TAFT, R. W., JR., chemistry, "Some Applications of Fluorine Nuclear Magnetic Resonance Shielding to Problems of Physical Organic Chemistry at Rutgers and Yale universities and at a meeting of the National Research Council Pure Chemical Division at Ottawa, Canada.

WOOLE, GERALD, speech and hearing clinic, "A Profession in Search of Identity," at Clanton State College.

ZIMKO, H. P., speech, "Communication in Management," at conference of American Institute of Industrial Engineers and at Conference on Personnel Management for Federal Executives.

—"Listening as a Management Tool," at meeting of the New York Association of Industrial Communicators.

ANDERSON, E. J., agriculture, "Extracting Equipment for the Operator of a Medium-sized Apiary," in the March issue of American Bee Journal.

At the Pennsylvania Academy of Sciences annual meeting at East Stroudsburg State College, papers by the following: G. F. DEASY, PHYLLIS R. GRIFF, E. W. MILLER, R. T. HOUTLIAN, ADAM ANTHONY, R. W. GRANLUND, E. S. KENNEY.

At the Washington, D. C., meeting April 29 of the International Scientific Radio Union, papers by H. S. LEE, J. S. NISMET, T. P. QUINN, A. J. FERRARO and five graduate students of the Ionosphere Research Laboratory.

BRITTON, J. H., child development and family relationships, "Dimensions of Adjustment of Older Adults," in Vol. 18 of Journal of Gerontology.

BROWN, J. S., JR., Ordnance Research Laboratory, "A Generalization of Semi-completeness for Integer Sequences" in the February issue of The Fibonacci Quarterly.

CADY, P. D., civil engineering, "Statistical Evaluation of Concrete Strength Tests," in the March issue of the Journal of the Construction Division, Proceedings of the American Society of Civil Engineers.

COKE, J. F., bacteriology, with MARIE L. VORBECK, "Characteristics of an Intracellular Proteinase System of Trichosporon Species Isolated from Trappist-Type

(Continued on page six)



Study Abroad

The 115 students currently studying abroad at Strasbourg, Cologne, Salamanca, and London, shown here as they departed from Idlewild Airport March 25, were well received at their destinations and are currently hard at work. At Salamanca, there was an official lighting of the monument, usually reserved for very special occasions, when the group arrived. Both at Strasbourg and Cologne, where the program was in effect last year, reactions to the arrival of the students indicated the great satisfaction the universities obtained last year.

Items—

(Continued from page four)

- Cheese," in the January issue of Applied Microbiology.
- COX, J. A., economic entomology, "Control of Red-Banded Leaf Roller on Grapes," in the February issue of the Journal of Economic Entomology.
- DE LISSOVY, VLADIMIR, child development and family relationships, "Head-Banging in Early Childhood: A Suggested Cause," in the March issue of The Journal of Genetic Psychology.
- FENTON, J. Y., religious studies, "The Post-Liberal Theology of Christ without Myth," in the April issue of The Journal of Religion.
- FERGUS, C. L., plant pathology, MALLETTE, M. F., ag biochem, with JUDITH MAYBERRY, "Pure Culture of the Slime Mold Physarum Gyrosum," in Vol. 54 of Mycologia.
- GENTRY, R. F., veterinary science, "Cultivation of Infectious Laryngotracheitis Virus in Embryonated Chicken Eggs by Various Routes of Inoculation" in the February issue of Avian Diseases.
- GOLDBURG, W. I., physics, "Oscillatory Approach of a Nuclear-Spining System to Thermal Equilibrium in a Rotating Reference Frame," with LEE, MOSES, at the American Physical Society meeting at St. Louis.
- GREENHILL, L. P., UDIS, findings of mass media research as applied to instruction, at the convention of the Speech Association of the Eastern States.
- JACOBSEN, MARGARET M., home-community relationships, "Family Resources in Coping with the Problem of Heart Disease," at the Groves Conference on Marriage and the Family, in St. Louis, April 29.
- KARLOS, L. T., agronomy, with W. E. SWARIZ, "Effects of Compaction on Physical Properties of Sand-Soil-Peat Mixtures at Various Moisture Contents, in Vol. 55 of Agronomy Journal.
- MARLOW, H. L., management training, "Conference Evaluation—a Fine Analysis," in the February issue of Personnel Journal.
- MOHSININ, NURI, and GOELHICH, HORST, ag-

ricultural engineering, with TUKEY, L. D., pomology, "Mechanical Behavior of Apple Fruits as Related to Bruising" in the Proceedings of the American Society for Horticultural Science, Vol. 81.

OPPEL, G. U. and PETERSON, H. A., engineering mechanics, "Experimental Techniques Employed for Photoelectric Analysis of Cellular Shells," at the spring meeting of the Society for Experimental Stress Analysis in Seattle, Wash.

PEPINSKY, RAY, Groth Institute, "Field Controlled Optical Activity in Ferroelectric Crystals," at the Symposium on Physics of Ferromagnetism and Ferroelectricity at Leningrad, U.S.S.R., May 30-June 4.

PIKE, RUTH L., foods and nutrition, with JANET M. WARDLAW, "Effect of Three Levels of Dietary Sodium During Pregnancy in the Rat on Granulation of Renal Juxtaglomerular Cells and Zona Glomerulosa Width," at the meeting of the Federation of American Societies for Experimental Biology.

REISER, MARTIN, DOC at OGONTZ, "The Role of Identification in the Sheltered Workshop" in the March issue of Rehabilitation Counseling Bulletin.

ROSE, ARTHUR, chemical engineering, "Rigorous Calculations for Gas Chromatography Scale Up," with R. B. SUMANTRI, and "Membrane Permeation by Liquids" with R. F. SWEENEY, at American Chemical Society meeting in Los Angeles.

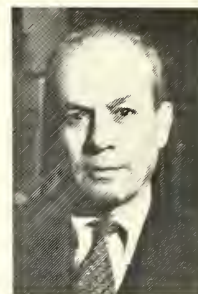
ROSEN, STANLEY, philosophy, "Ideas" in the March issue of Review of Metaphysics.

SNOWDON, J. C., Ordnance Research Lab, "Steady-State Transient Behavior of Two- and Three-Element Isolation Mountings," and "Transient Response of Nonlinear Isolation Mountings to Pulse-like Displacements," in the March issue of the Journal of the Acoustical Society of America.

SPENCER, R. E., UDIS, "Christian and Non-Christian Symbolic Orientation of American and Foreign Students," at the annual convention of the National Association of Foreign Student Advisers, at Pasadena, Calif.

Graduate lecture

Dr. Philip K. Hitti, retired professor of Semitic literature and chairman of the department of Oriental languages, Princeton University, will speak on "The Cultural Interrelationship between Islam and the West," in the Graduate Lecture Series, Tuesday, May 7, at 8 p.m. in Room 121 Sparks.



Dr. Hitti

Dr. Hitti points out that of all religions Islam is the closest to Christianity, and in the last 150 years, Islam has adopted and adapted Western scientific practices, techniques, and institutions.

"As the Moslem society becomes more Westernized, modernized, and secularized, and as fear of further aggression from the West is diminished, Christians and Moslems will be drawn closer together," he declares.

Arms control

"The United States and Soviet Positions on Arms Control and Disarmament" will be the subject for talks by U. S. and Russian advisers on disarmament at the Geneva conference, Monday at 3:30 p.m. in Schwab Auditorium.

Robert E. Matteson, U. S. adviser, and Victor Karpov, first secretary of the Russian embassy in Washington, D. C., will give the talks, sponsored by the department of political science.

faculty BULLETIN

Vol. 50, No. 40 May 3, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

MISS MILDRED AILMAN
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR

Friday, May 10

Art Education Graduate Club exhibition and sale, Chambers Building Gallery. Oil paintings, ceramics, crafts, and others. Formal opening, 8 p.m.

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Thespian Show, "Bye-Bye Birdie," 8 p.m., Schwab.

College of Agriculture Seminar, 4 p.m., HUB Assembly Room. Charles E. Kellogg, assistant administrator, Soil Conservation Service, on "The Outlook for Agriculture."

Saturday, May 11

Pavilion Theatre production of "The Chinese Wall," 2 p.m. and 8 p.m.

Thespian Show, "Bye-Bye Birdie," 2 p.m. and 8 p.m., Schwab.

Tennis vs. Syracuse, 2 p.m., varsity courts. "Exchange," sponsored by U.C.A., dinner meeting, 6:30 p.m., HUB dining room "A". Dr. J. Mitchell Morse and E. William Muehl.

Sunday, May 12

Chapel Services, 10:55 a.m., Schwab Auditorium. E. William Muehl, professor of practical theology, Yale Divinity School, on "The Cult of the Publican."

R.O.T.C. Drill Competition, 2 p.m., Beaver Stadium, with Mrs. Raymond P. Shafer, wife of the Lieutenant Governor, as Mother of the Year.

Honor Society Council awards luncheon, 12:30 p.m., Nittany Lion Inn Coffee Shop.

Hillel Graduate Student Club, 8 p.m., Hillel Foundation. Oswald Le Winter, instructor in English, on "Poems of a Jew."

Men's Glee Club concert, 3 p.m., Schwab Auditorium.

Monday, May 13

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". David E. Davis, professor of zoology, on "Phenomenon of the Silent Spring."

Biophysics Seminar, 2:30 p.m., Room 300 Walker. Dr. J. J. Wolken, visiting lecturer in biophysics, on "Photosynthesis."

(Continued on page four)

Mother's Day

Mrs. Raymond P. Shafer, wife of the Commonwealth's lieutenant governor, will be honored Sunday as Mother of the Year for Mother's Day Activities.

She will join with President Walker in presenting awards at the 10th annual drill competition to be presented in Beaver Stadium at 2 p.m. by Army, Navy, and Air Force R.O.T.C. units.

Other activities for the special week-end include a concert by the Glee Club at 3 p.m. in Schwab Auditorium, the annual Honors Society Council Luncheon at 12:30 p.m. in the coffee shop of the Nittany Lion Inn, and programs by the several fraternities and sororities.

Twenty juniors and 17 seniors will be given Evan Pugh Medals at the Honors Society Council luncheon and three freshmen, all at Commonwealth Campuses, will receive the special President's Book Award for having perfect 4.0 averages for two terms.

Charles C. Dillio, president of the Council, will present the Evan Pugh Medals, one of the outstanding awards for accomplishment in the classroom. M. Nelson McGeary will present the President's Book Awards.

The drill competition will include two drill teams from each of the units and they will be evaluated on precision, appearance, and originality. In case of rain, the competition will be held in the Ice Pavilion.

Goodman winner

Dr. Lionel Goodman, associate professor of chemistry, is one of 269 scholars, scientists, and artists awarded Guggenheim Fellowships, announcements of which were made recently.

He plans to use the fellowship for work at the Sorbonne, in Paris, in 1964. The study will be in the theory of polarization of multiplicity forbidden electronic transition in polyatomic molecules.

Pivot awards

Announced this week were the annual awards presented for the best poems by students appearing in Pivot, publication of the Poetry Workshop.

Joseph L. Grucci, associate professor of English who is director of the workshop, announced a new award, the Margot Grossman Weinbaum Memorial Award, has been won by Leonard R. Garzotto, junior in Liberal Arts. The award is named for a 1954 graduate and member of the Workshop who was killed in a plane accident six years ago and is offered by her aunt, Ruth Brooke, of New York City.

The Anthony James Grucci Memorial Award winner is John Raeder, senior in Arts and Letters.

Gary S. Levitt and John J. Reeder, both seniors in Arts and Letters, were named as co-winners of the Samuel Barsky Memorial Award.

Judges for the three awards were Grucci, Paulyne Fisher, and Hans Neuberger.

Pivot, now in its 13th year and probably the most successful college poetry publication, goes on sale today (Friday) at many local outlets.

Radio special

The second broadcast in a two-part presentation on The University and The Board of Trustees will be presented Monday, at 7:45 p.m. by Radio Station WDFM, student-operated station. The broadcast will also be carried by WMAJ, State College.

Dorothy Drasher, news editor of WDFM, is responsible for the scripts, which last week covered the subject, "Is Penn State THE State University?" and Monday will be concerned with "The University's Board of Trustees—What Do They Do?"

Copies of both scripts will be available to anyone interested; write to Miss Drasher, WDFM, Room 304 Sparks.

Peace Corps fellowship program

The University will administer a major fellowship program at eight universities for returning Peace Corps veterans and other young Americans with similar overseas experience.

Dr. Clarence Thurber, associate professor of political science and public administration, will be chairman of an inter-university committee to oversee the program. The universities participating in addition to Penn State are Chicago, Columbia, Cornell, Harvard, Stanford, U.C.L.A., and North Carolina.

The Foundation has provided \$400,000 to aid the program which will support as many as 75 graduate fel-

lowships in fields related to overseas development.

About 600 Peace Corps volunteers will have completed their assignments in June and several thousands will have done so a year hence. It is estimated that about 65 per cent want to continue overseas development work but feel the need for more training. Fields expected to receive most attention are economics, public administration, education, and others.

The Arts

music

Frank Gullo will direct the Penn State Glee Club Sunday, at 3 p.m. in Schwab Auditorium in its annual spring concert as a feature of Mother's Day programs.

Wednesday, May 15, the Alard String Quartet, with Joanne Zagst, Donald Hopkins, Raymond Page, and Leonard Feldman will present another concert at 8:30 p.m. in Schwab Auditorium. The program will include works by Purcell, Shostakovich, Ravel, and Brahms.

Saturday, May 18, the University Chapel Choir, University Symphony, and soloists, directed by Denis Stevens, distinguished visiting professor of music, will give the annual spring concert, featuring Monteverdi's "Vespers of 1610" and Vivaldi's "Concerto Grosso in B Minor," for four violins, string orchestra, organ, and harpsichord.

Vocal soloists for the Monteverdi Vespers will be Rachel Day Kessler and Bernadine Oliphint, sopranos; Joan Caplan, contralto; Mark Chalat and Donald Russell, tenors; and William Ramsey, baritone. Students Joseph Krimmel and Robert Fought will sing the intonations.

Featured in the Vivaldi concerto will be Donald Hopkins, Joanne Zagst, Raymond Page, and Theodore Karhan, violinists, Leonard Raver, at the harpsichord, and George E. Ceiga, organist.

Sunday, May 19, W. Paul Campbell will direct the Women's Chorus in a program which will include works by Bortniansky, Brahms, Schumann, John E. West, Debussy, Leonard Bernstein (from West Side Story), Jeno von Takacs, Wenonah M. Lowell, and Charles Gilbert Spross, as well as a Ukranian Folk Song and a South American Nocturne. The concert will be given at 3 p.m. in Schwab Auditorium.

Also Sunday, May 19, Leonard Raver, Chapel organist, and Mrs. Overda Page, flutist, will present a concert.

Other events for the remainder of May include a concert by the Meditation Chapel Choirs, directed by James Beach, Saturday, May 25, at 8 p.m. in Schwab Auditorium, and a concert by the University Symphony Orchestra, directed by Theodore Karhan, Sunday, May 26, at 3 p.m. in Schwab Auditorium.

The concluding event will be the program by Allan R. Mandel, pianist, Tuesday, May 28, at 8:30 p.m. in Schwab Auditorium.

Land, water research institute

Dr. John C. Frey, professor of land economics, has been named director of the new Institute for Research on Land and Water Resources, organized as part of the Institute for Science and Engineering in the Office of the Vice President for Research.

The new institute will "stimulate, coordinate, and conduct studies pertaining to the use, management, and development of land and water resources for the enhancement of economic growth in the Commonwealth."

Both basic and applied research of value to the Commonwealth will be carried on by researchers in the new Institute. Major emphasis will be given to inter-disciplinary problems in the land and water management field. Land-use planning standards and criteria will be developed for guidance in development and redevelopment programs; also, it is expected that

recommendations will be made of policies and institutional arrangements to facilitate the development and fuller utilization of land and water resources.

Dr. Frey, whose research here has been concerned with evaluation of abandoned farm land and on the impact of highway improvement on land use, business enterprise, and community development, is a graduate of the Iowa State College where he was also granted the doctor of philosophy. He was granted the master's degree by the University of Georgia.

Books

Dr. John A. Mourant, professor of philosophy, is author of "Formal Logic," an introductory text published recently by The MacMillan Co. The book provides introductory and comprehensive material on modern or symbolic logic as well as full treatment of traditional, Aristotelian, logic. Special attention has been given to terms and the syllogism in traditional logic and to Deductive Systems and Logical Proofs in modern logic. Dr. Mourant is also the author of "Readings in the Philosophy of Religion" and many articles in various professional journals.

"Fifty Notable Ship Portraits at Mystic Seaport," published last week by the Marine Historical Association, Inc., Mystic, Conn., is the work of Richard C. Maloney, associate dean of the College of the Liberal Arts. The book gives a brief description of each of the 50 paintings and a list of all the paintings in the collection of the Marine Historical Association. Dean Maloney completed the book while he was doing research on the letters and papers of Lt. James Lawrence Parker, U.S.N., hero of the Mexican War. The research was done last summer while Dean Maloney was on leave.

Oswald LeWinter, instructor in English, is author of "Shakespeare in Europe." 385 pages, published this week by Meridian: World, New York. In the field of comparative literature, it is the first extensive treatment of Shakespeare criticism and includes translated criticisms by Voltaire, Goethe, Pushkin, Tolstoy, and Turgenyev among many others. The book has been reviewed favorably by, among others, Publishers Weekly, Library Journal.

Faculty Luncheon Club

Dr. David E. Davis, professor of zoology, will speak on "Phenomenon of the Silent Spring," at the weekly Faculty Luncheon Club meeting, Monday at 12:30 p.m. in HUB dining room "A".

Alumni Fund

Contributions to the 1963 Alumni Fund now total \$189,770.54, given by 5,980 contributors.

Alumni Trustees

Michael Baker, Jr., of Rochester, Pa., Albert E. Dien, Bridgeport, Conn., and incumbents J. E. Holtzinger, Altoona, B. C. Jones, Pine Grove Mills, and J. L. Romig, Kennett Square, were listed on ballots sent to alumni for election to the University's Board of Trustees. Three are to be selected, to serve three-year terms.

Art Sale

The annual exhibit and sale by the Art Education Graduate Club will be held today and tomorrow (Friday and Saturday) in the Chambers Building gallery. A formal opening will be held at 8 p.m. today (Friday). Oil paintings, ceramics, and crafts constitute the greater portion of the exhibit.

Construction

The Board of Trustees has approved construction of a small building away from the central campus area where research work in high pressures in the College of Chemistry and Physics may be carried on. The facility will be available also for use as a laboratory where work having offensive odors can be done.

UCA faculty program

Dr. J. Mitchell Morse, associate professor of English, and E. William Muehl, professor of practical theology, Yale University Divinity School, will discuss "Are There Really Ethical Implications to the Gospel," at a U.C.A. sponsored series of faculty seminars Saturday, May 11, at 6:30 p.m. in HUB dining room "A".

Student Survey

In the area of Extra-Curricular Activities, the more than a thousand students who answered the questionnaire of the Student Attitude Survey administered last year by the Student Affairs Research office were asked 16 questions on three general subjects: Student Government, Social Activities, Other Activities.

Student Government

Students were asked, in a series of five questions, their attitudes toward Student Government, expressed as strongly agree, agree, disagree, and strongly disagree.

Results of this part of the Survey are tabulated here, for space and convenience reasons, showing percentages of agreement, combining the "strongly agree" and "agree" percentages.

	Per Cent Agreement
1. I personally feel that participation in student government organizations is a waste of time.	46
2. I am very satisfied with the caliber of student leaders on this campus.	48
3. On the whole, the administration does not give the student government a chance to prove its ability to govern student affairs.	71
4. Student government on this campus is doing an excellent job.	23
5. There are adequate opportunities for everyone to participate in student organizations.	63

The Variables:

Question 1 — There was no clear pattern to the variation in agreement by GPA, the range of agreement being from 37% for GPA-2 to 53% for GPA-6. Freshmen indicated the least agreement, 28%, seniors the greatest, 60%. Greek affiliation was not significant, and ranges of percentages in variables College and Sex were not great.

Question 2 — GPA-1 students agree 65%, GPA-6 students only 32%. Freshmen indicated 61%, seniors only 38%; Home Economics students indicated highest agreement, 68%; Business Administration the lowest, 38%.

Question 3 — little difference from Total Response indicated among the variables.

Question 4 — All categories of GPA showed strong disagreement here, the range being from 65% for GPA-1 to 90% for GPA-6.

Question 5 — Range of agreement was 43% for GPA-1 to 81% for GPA-6.

SUMMARY

On three of the five questions, opinion is rather evenly divided but the students overwhelmingly agree that "the administration does not give student government a chance" and overwhelmingly disagree with the statement that "student government is doing an excellent job."

Organized Social Activities

Five items pertaining to the fraternity system and other general aspects of social activities were also answerable by strongly agree, agree, disagree, and strongly disagree. Again, the Total Response shown below combines the agreements.

	Per Cent Agreement
6. Sororities and fraternities serve a useful purpose in the lives of students here.	85
7. I believe that fraternities and sororities should be abolished at Penn State.	7
8. Social activities are over-emphasized at Penn State.	31
9. There is a definite need for more organized social activities at Penn State.	29
10. There is adequate opportunity for everyone to participate in social activities.	81

The Variables

Question 6 — 68% of the Greeks "strongly agree," and 30% agreed, for a total agreement of 98%.

Question 7 — little variation from Total Response shown, except that 23% of GPA-6 and 16% of Mineral Industries students agreed.

Question 8 — agreement among Colleges varied from 15% for Business Administration to 44% for Liberal Arts.

Question 9 — 57% of GPA-1 students agreed.

Question 10 — no significant variation from Total Response.

SUMMARY

Students generally are opposed to abolition of fraternities and sororities and feel that the Greek organizations serve a useful purpose in student life. The opinions were shared by non-Greeks. Apparently there is no need for more organized social activities. The respondents do not seem to think that social activities are over-emphasized.

OTHER ACTIVITIES

Six questions on athletics, student newspaper and religion sought attitudes on activities not generalized elsewhere.

"There is too much emphasis on athletics at Penn State."

Total — response by the entire group was 2% strongly agree; 12% agree; 70% disagree; and 16% strongly disagree. Total agreement, 15%.

Variables — little of significance indicated. Physical Education students agreed only 4%; Mineral Industries, 23%.

"The Collegian is an accurate indication of how students feel about Penn State."

Total — strongly agree, 6%; agree, 44%; disagree, 41%; strongly disagree, 9%. Agreement totalled 50%.

Variables — agreement across all the variables was within 10 per cent of the Total Response. Freshmen, sophomores and juniors expressed agreement somewhat above average, but seniors indicated only 40% agreement.

"The Collegian publishes opinions and attitudes that are similar to my own."

Total — strongly agree, 3%; agree, 51%; disagree, 39%; strongly disagree, 7%. Total agreement, 54%.

GPA — highest agreement was shown by GPA-4 group (60%) and lowest by GPA-6 (39%).

Colleges — highest agreement indicated by Education majors (63%).

"Religion or religious values are irrelevant to a good college education."

Total — strongly agree, 8%; agree, 21%; disagree, 47%; and strongly disagree, 23%. Total agreement, 29%.

GPA — there was no particular pattern to the variance by GPA-grouping but GPA-6 group showed 44% agreement (highest) and GPA-5 showed only 26% agreement (lowest). **Year** — freshmen, 23% agreement; sophomores, 27%; juniors, 35%; seniors, 35%.

College — highest agreement was shown by Chem-Physics (38%) and lowest by Physical Education (12%).

"I would consider myself to be . . ."

Total — very strongly religious 12%; somewhat religious, 67%; not religious, 17%; totally disinterested in religion, 4%.

GPA — modal response (somewhat religious) decreases with increase in GPA and all other selections increased. However, the total of "not religious" and "totally disinterested" increased from 17% for GPA-1 to 33% for GPA-6.

"In regard to religion, a state university such as Penn State should . . ."

Total — assume a total hands-off policy and not allow religious activities of any sort to be held on campus, 3%; be interested only to the extent of encouraging the student to participate in religious activities sponsored by the community, 23%; be actively interested, allowing all religious groups to hold services on campus and maintain a chapel, 74%.

College — DOC, Agriculture, and Physical Education students showed the greatest variation from average. DOC students put more emphasis (37%) on the second choice (encourage) at the expense of third choice (61%). Both Agriculture (86%) and Physical Education (92%) students placed heavier emphasis on choice three than did the average.

SUMMARY

The great majority of students, 86%, did not feel that there was too much emphasis on athletics at Penn State.

Opinions were very much divided on the student newspaper, Collegian, however. Half thought the paper is an accurate measure of how students feel about Penn State, and only a little more than half thought Collegian publishes opinions and attitudes similar to their own.

Fewer than a third of the students felt that religion or religious values are irrelevant to a good college education but the 44% of the students in the highest grade-point-average group agreed that they are.

PERSONNEL MATTERS



G. P. Barron

Dr. George P. Barron, professor of animal nutrition, has been named professor of foods and nutrition, effective July 1, succeeding Dr. Miriam E. Lowenberg who will retire with emerita rank after heading the department

since 1952.

A member of the faculty since 1948, Dr. Barron received the bachelor's and master's degrees from Texas A. and M. and doctor's degree from Penn State in 1953. He has been a nutritional consultant for the National Institutes of Health and for Williams-Waterman Fund, Research Corp.

On leave in 1962, Dr. Barron was executive secretary of the Nutrition Study Section, National Institutes of Health. Among other activities he was a member of a team that surveyed the status of nutrition research in Brazil and arranged for cooperative studies between American and Brazilian scientists. In 1958-59, he was leader of a group of scientists making a nutrition appraisal of Haitian population.

Sir Anthony Blunt, professor of art history at the University of London and surveyor of Queen Elizabeth's Pictures since 1952, has been named distinguished visiting professor of art and architectural history for the Summer Term. He has served as director of the Courtauld Institute of Arts since 1947 and served on the faculties of Trinity College, Cambridge,

Warburg Institute, London, and the University of London.

Dr. Forrest J. Remick, who has been acting director of the Nuclear Reactor has been named director. He has been a member of the faculty since 1956.

Dr. Alfred O. Schmidt, professor of mechanical engineering at Marquette University and research coordinator and consultant at the University of Michigan, has been named professor of industrial engineering, effective Sept. 1. He was chief engineer with the Kearney and Trecker Corp., Milwaukee, Wis., 1943-1961. A graduate in mechanical engineering from Ingenieur Schule, Hlmenau, Germany, he also studied at the University of Jena, and received master of science and doctor of science degrees from the University of Michigan.

Dr. John R. Mentzer, professor of engineering sciences, will be on leave from June 10 to Sept. 9 at the Sandia Corporation Laboratories, Albuquerque, N.M., preparing a publication on his research on electro-magnetic effects associated with nuclear reactions.

Dr. William H. Gray, professor of Latin-American history and director of International Student Affairs, has been granted a leave of absence from December to June 14, 1964, to travel to New Zealand, Australia, and Africa, visiting former Penn State students from those countries and conducting research in the colonial archives in Spain on Simon Bolivar and Jose De San Martin.

Charles D. Werner, who retired March 31, has been named professor emeritus of physical education. He is now executive director of the U.S. Track and Field Federation.

Calendar—

(Continued from page one)

Polymer Science Seminar, 4 p.m., Room 210 Hammond. J. M. Crissman, on "Internal Friction in Polymers at Low Temperatures."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics, Joan Gordon, on "Subjective Evaluation of Food Quality."

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Tuesday, May 14

Biological Sciences Lecture Series, 3:55 p.m., HUB assembly room. Dr. Walter R. Henson, Yale University, on "Behavioral Mechanisms in the Dispersal of *Conophthorus coniperda* SZ."

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Wednesday, May 15

Alard Quartet Concert, 8:30 p.m., Schwab Auditorium.

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Thursday, May 16

Mathematics Colloquia, 4 p.m., Room 109 Osmond. Prof. O. Goldman, University of Pennsylvania.

Architecture Lecture, 8 p.m., Mineral Industries Auditorium. Paul Rudolph, Yale University, on "Environment and Architecture."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. W. Sladek, Purdue University, on "Piezoresistance in Gallium Arsenide."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Prof. Ralph N. Adams, University of Kansas, on "Studies of Organic Electrode Reactions."

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Friday, May 17

Agriculture Research Seminar, 4 p.m., HUB assembly room. Summation of series by D. E. Davis, Herman M. Southworth, and Dean L. E. Jackson.

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

faculty BULLETIN

Vol. 50, No. 41 May 10, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Student Survey

(Sixth in a series)

IN a series of six questions, the attitudes of students toward University Rules and Regulations were sought in the Student Attitude Survey made last year by the Student Affairs Research office.

Also, six other questions were aimed at determining attitudes toward the University Administration.

RULES

In each case, the student was asked to express his attitude as strongly agree, agree, disagree, or strongly disagree. Again, for the sake of space, the responses were combined under "agree" or "disagree." In virtually every case the "strongly agree" or "strongly disagree" responses are only a small part of the total.

	Per cent Agreement
1. The governmental organization at Penn State, on the whole, could be termed a good example of democracy.	27
2. The regulations at Penn State do not unduly restrict the activities of the students.	72
3. A curfew for girls is unnecessary and does not accomplish anything.	25
4. There is a need for more student participation in formulating rules and regulations.	90
5. Most rules and regulations at Penn State seem to be purposeless.	10
6. The rules and regulations at Penn State are, by and large, fair and necessary.	80

(Continued on page six)

Honored

Edwin J. Anderson, professor of apiculture, has been honored by the Pennsylvania State Beekeepers Association with the presentation of a plaque, which reads:

"The Pennsylvania Beekeepers Association to Prof. Edwin J. Anderson. For his many years of devoted service to the Beekeeping Industry and his dedication as editor of the Pennsylvania Beekeeper since its inception in 1927."

A member of the faculty since 1926, Anderson has actually been active at Penn State since 1921 when he became a student assistant.

Fred B. Schneider, who teaches mechanical engineering at the Behrend Campus has been honored by being elected Fellow in The American Society of Mechanical Engineers. Born in Germany and educated in Switzerland, Schneider began employment in this country in 1925. Between 1932 and 1934 he returned to Switzerland and patented a high-efficiency dust collector now commonly used throughout the world. He was with General Electric Co. in Erie from 1937 until his retirement in 1962. For many years he was an instructor for the professional engineering review courses and administrator of the University's evening extension program.

Dr. Paul H. Schweitzer, professor emeritus of engineering research since 1958 and a member of the faculty for 35 years until his retirement, was cited by the German professional journal, "Motor Technische Zeitschrift," on the occasion of Dr.

(Continued on page six)

N.A.S.A. speaker

The third in a series of lectures by National Aeronautics and Space Administration officials will be given Wednesday, May 22, at 1 p.m. in Mineral Industries Auditorium by Dr. Orr E. Reynolds, director of bio-science programs.

He will speak on "The Future of Environmental Biology and the Contribution of Space Research." The lectures are being sponsored by the University's Space Science and Engineering Committee.

Enrollment climbs

Enrollment in home economics courses increased by 19 per cent from 1951 to 1959, data supplied by the U. S. Office of Education indicates. The tabulations are for majors and non-majors, men and women, graduates and undergraduates.

A seven per cent increase in degrees earned in home economics during the same period is noted in the October, 1961, issue of School Life. The gain was greater than that in all fields of study combined.

The data indicates that a statement attributed to a recent speaker on campus—to the effect that a 40 per cent decline has been noted in the numbers of students seeking degrees in home economics—is in error. Since 1955, the U. S. Office of Education has tabulated data from institutions granting degrees in home economics under two separate categories and users of the data are cautioned to include both categories if they wish to make comparisons with data of previous years.

CALENDAR

Friday, May 17

Agriculture Research Seminar, 4 p.m., HUB assembly room. Summation of series by D. E. Davis, Herman M. Southworth, and Dean L. E. Jackson.

Pavilion Theatre production of "The Chinese Wall," 8 p.m.

Philosophy Colloquium, 8 p.m., Room 213 Boucke. Norwood R. Hanson, University of Indiana, on "LaPlace and Goedel: An analogy."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Michael Beer, Johns Hopkins University, on "Sub-molecular anatomy of macro-molecules."

Saturday, May 18

University Chapel Choir and University Symphony concert, 8:15 p.m., Schwab Auditorium, directed by Denis Stevens.

Varsity baseball, vs. Pittsburgh, double-header at 1 p.m.; varsity track, vs. Quantico Marines, 1:30 p.m.; varsity tennis, vs. Colgate, 2 p.m.

Pavilion Theatre, closing performance, 8 p.m.

Sunday, May 19

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Bernard M. Loomer, professor of Theology, University of Chicago Divinity School, on "Intellectual Love."

Concert by Women's Chorus, directed by W. Paul Campbell, 3 p.m., Schwab.

Concert by Dr. Leonard Raver, harpsichord, and Mrs. Overda Page, flute, 8:30 p.m., Schwab Auditorium.

Monday, May 20

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Kenneth Burke, distinguished visiting professor of English, on "Terministic Screens—a Problem for the Social Sciences."

State College Color Slide meeting, 7:30 p.m., Room 101 Chambers. Slides from series, "How to Take Better Travel Pictures," plus grand winners of the year.

Psychology Colloquium, 8 p.m., Room 209 Home Economics South. Dr. Fred Attneave, professor of psychology, University of Oregon.

Polymer Science Seminar, 4 p.m., Room 210 Hammond. J. N. Lange, Jr., on "Wave

(Continued on page three)

SENATE MINUTES

Meeting of May 7, 1963

The University Senate met at 3:55 p.m. on Tuesday, May 7, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 2, 1963 meeting were approved as printed in the *Faculty Bulletin* for April 12, 1963. One hundred fifty-two senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: D. H. Ford (J. D. Ashby), Coleman Herpel (K. M. Bailcy), E. P. Hexner (E. A. Myers), W. H. Hill (I. B. Brown), J. W. Hunt (Roy Ehman), M. W. Isenberg (L. A. Richardson), B. B. Lethbridge, Jr. (R. S. Stout), E. L. Mattil (Yan Chomicky), W. E. Meyer (R. D. Fellows), E. C. Pollard (Wayne Webb), W. H. Powers (K. V. Manning), H. J. Read (J. H. Hoke), J. J. Reid (H. W. Dunne), R. B. Saylor (O. H. Sauerlender), O. A. Schmidt (W. W. Ward), I. S. Spicer (D. R. Maneval), C. W. Stoddart, Jr. (C. A. Morehouse), and W. P. Winter (J. W. Siphron).

Communications were received from Vice President John R. Rackley and N. C. Pendered, Chairman of the Senate Committee on Faculty Affairs, concerning the filling of a position vacancy on the Tenure Committee. (See Registrar's note at the end of these minutes for subsequent actions).

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1963-1966 were read by the secretary as follows:

Agriculture—J. O. Almquist, J. S. Boyle, H. J. Poorbaugh, W. I. Thomas, E. G. Buss to replace J. J. Reid 1963-1965. R. C. Cowan to replace M. F. Mallette 1963-1964.

Business Administration—W. S. Decker, W. L. Ferrara, F. W. Kniffin, W. J. Schrader, R. M. Colwell to replace J. J. Kaufman 1963-1965. A. L. Williams to replace A. H. Reede 1963-1965.

Chemistry and Physics—W. G. Braum, C. G. Haas, Jr., E. W. Mueller, P. S. Skell. **Education**—Y. G. Chomicky, M. L. Coulter, A. V. Kozak, D. G. Thevaos.

Engineering—G. B. Holt, Jr., O. E. Lancaster, H. A. Weeden, E. R. Weidhaas.

Home Economics—A. W. Melton, Jr., Ruth Pike, Elizabeth Ray, A. F. Tesi.

Liberal Arts—R. W. Brewster, M. B. Grammer, Leon Gorlow, W. W. Hassler, Jr., R. E. Buck to replace Orrin Frink 1963-1965.

Mineral Industries—A. K. Blackadar, M. L. Keith, P. I. Lewis, R. F. Schmalz.

Graduate School—R. D. Ayoub, K. R. Beitel, H. S. Brown, L. H. Lattman, Monroe Newman to replace Gerald Torkelson 1963-1965.

Physical Education and Athletics—F. M. Coombs, A. R. Gray, Lucille I. Magnusson, Antoinette M. Valentine, Herberta Lundgren to replace Barbara Hoepner 1963-1964.

Reports of Standing Committees

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed with the agenda as Appendix "A."

He commented on the report and moved that it be received by the Senate to lie on the table for consideration at the June meeting in accordance with Article V, Section 3 of the By-Laws. The motion was seconded and passed. The report contained the following recommendation:

That the nonvoting student member now provided for under Article II, Section 1, 0-3B of the By-Laws be removed from this group and included in the voting membership under Section 1, 0-3A.

The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." He moved that the last part of the report as it pertained to curriculums and courses be adopted. The motion was seconded and passed.

Mr. Shelley then commented on the "Informational Report on HONORS PROGRAMS AND COURSES." He proposed that two changes be made in the recommendations which together, would add, in parenthesis, to number 5 on page two the following paragraph from the "Comments" on page three:

The undergraduate Honors thesis itself is defined as generally as possible, so that "a scholarly written report" upon a project may be thus considered, so long as it represents individual investigation or creation (e.g., in art, music, theatre arts, etc.) under the personal supervision of a thesis director and shows originality in content and/or organization.

Mr. Shelley stated that this "Informational Report" had been distributed to the members for discussion at this meeting but that action would not be taken until the next regular meeting of the Senate. There was discussion by Messrs. VanderMeer, Atwater, Shelley, Webb, Whisler, Jordan, and Murray. The report is as follows:

INFORMATIONAL REPORT HONORS PROGRAMS AND COURSES

At the March meeting of the Senate the Committee on Courses of Study presented for consideration and action its "Report and Recommendations Regarding University Honors Programs and Courses." Following discussion a motion was passed returning the matter to the Committee for reconsideration in the light of said discussion. Subsequently the Committee reactivated the subcommittee that had made the original reappraisal and the resulting recommendations regarding Honors programs and courses (with the replacements by A. T. Thompson of Ruth W. Ayres, who was incapacitated by illness); that committee has since reexamined the matter, conferred with interested parties, and made recommendations which are endorsed by the parent Committee.

As will appear, there is in the new recommendations some modification of the original ones; however, in the main, they remain unchanged, reflecting the committees' conviction that if the University is to offer Honors programs they should be of the highest possible quality. Rather than recapitulate

the introductory historical sections of the prior report and the one relating to costs of Honors programs (concerning both of which there was no disagreement) or repeat existing Senate regulations pertaining to Honors programs (of which the "Minimum Administrative Requirements" are to be left intact), the Committee presents instead its revised proposal relative to the "Minimum Academic Requirements" (item I below), setting forth in full the proposed new statement of requirements, incorporating recommended revisions and indicating them by underlining. The Committee also presents a second proposal (item II below) relative to several Honors courses which, although approved at present, are not part of corresponding Honors programs. The committee does wish to reiterate its endorsement of the subcommittee's conception of the central goals for Honors programs at Penn State:

1. To develop outstanding and independent student achievement.
 2. To enrich the educational experience of the student in breadth and depth beyond the normal program.
 3. To enable (and to cause) the superior student to work to maximum capacity.
- I. Accordingly, in the knowledge that Honors programs are expensive and demanding in terms of both time and money and also in the belief that only programs of guaranteed excellence are worthy of the required expenditures, the Committee recommends adoption of the following revised statement of

Minimum Academic Requirements for the University Honors Program

1. In order to be eligible for participation in an Honors program a student must have at least fourth term standing and have attained either a cumulative grade point average of at least 3.00 or a 4.00 average in courses in his academic major. *Participation in the Honors Program is at the invitation of the Appropriate Honors committee. (VERBAL CHANGE FOR CLARITY)*
2. An Honors student must maintain a cumulative grade point average of 2.50 in order to remain in the Honors program. (NO CHANGE)
3. *In order to qualify for an Honors diploma the student must complete twelve (12) credits of Honors work. These twelve (12) credits are to be part of, rather than in addition to, the minimum requirements for graduation.*
4. *Of the twelve (12) credits of Honors work not fewer than six (6) are to be assigned to courses designed specifically for, and open only to, students officially enrolled in an Honors program.*
5. *Of the twelve (12) credits of Honors work not fewer than three (3) or more than six (6) are to be devoted to an undergraduate Honors thesis. Such a thesis should be a scholarly written report and may be based upon a project. (The undergraduate Honors thesis itself is defined as generally as possible, so that "a scholarly written report" upon a project may be thus considered, so long as it represents individual investigation or creation [e.g., in art, music, theatre arts, etc.] under the personal supervision of a thesis director and*

Registrar Reports on Enrollment for Spring Term, 1963

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
THE LIBERAL ARTS																		
AL				114	45	571	72	89	403	104	72	255				665	1060	1725
DDP							1										1	1
Journ				6	6	50	16	16	63	10	6	38				114	97	211
LMR					1	12		1	12	2	1	13				40	2	42
LA	30	15	534	6	1	5	1	1			1					268	326	594
Math				3	3	47	7	9	24	14	11	12				82	48	130
Total	30	15	534	129	56	685	97	116	502	130	91	318				1169	1534	2703
Total Undergrad.																		
Students Univ. Pk.	103	103	2810	380	313	3003	624	563	2779	634	488	2295	26	3	24	9296	4852	14148

Resident Credit Summary

	Freshman		Sophomore		Junior		Senior		Graduate		Special		M	W	T
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
U.P. Campus															
Full-Time	2084	925	2283	1391	2454	1418	2365	993	558	70	26	15	9770	4812	14582
Part-Time	2	5	15	5	20	14	40	19	1269	259	116	99	1462	401	1863
Study Abroad				2	11	49	22	31					33	82	115
Total	2086	930	2298	1398	2485	1481	2427	1043	1827	329	142	114	11265	5295	16560
	3016		3696		3966		3470		2156		256		16560		
Other Campuses															
Full-Time (4 year)	684	299	441	163	49	14	0	3			8	3	1182	482	1664
Part-Time (4 year)	12	5	15	7	4	2	3	2	1		24	29	59	45	104
Full-Time (2 year)	675	5	604	2									1279	7	1286
Part-Time (2 year)	20		57								4	1	81	1	82
Total	1391	309	1117	172	53	16	3	5	1		36	33	2601	535	3136
TOTAL ALL	3477	1239	3415	1570	2538	1497	2430	1048	1828	329	178	147	13866	5830	19696
CAMPUSES	4716		4985		4035		3478		2157		325				

Resident Credit

	Undergraduates		Graduates		Specials		Total Resident Credit
	FT	PT	FT	PT	FT	PT	
Allentown	84	1			9	25	119
Altoona	323	13		22		66	424
Behrend	267	13		28	2	29	339
DuBois	118	6			1	23	148
Hazleton	194	18				14	226
McKeesport	286	18				4	308
Mont Alto	76						76
New Kensington	87	3		2		92	184
Ogontz	824	30		1	1	6	862
Pottsville	172	3			1	7	183
Scranton	93	2					95
University Park	14028	120	628	1528	41	215	16560
Wilkes-Barre	148	11		3		7	169
Wyomissing	160	5				2	167
York	107	4		3		69	183
Grand Total	16967	247	628	1587	55	559	20043

Resident Non-credit

	Short Course	Formal Cont. Ed.	Informal Cont. Ed.	Total	Grand Total
		272	134	406	525
		122	19	141	565
		123	174	297	636
		15		15	163
					226
		325	42	367	675
					76
		186	109	295	479
		624	142	766	1628
					183
		108	17	125	220
					20018
		124	23	147	316
			12	12	179
		65		65	248
Grand Total	2496	1964	1634	6094	26137

Graduate/Special Students by Colleges

	Graduates		Specials	
	M	W	M	W
Agriculture	245	21	12	3
Arts and Arch.	22	16	....	....
Business Ad.	62	1	20	3
Chem. & Phys.	314	19	12	5
Education	300	110	23	43
Engineering	227	1	9	1
Home Econ.	46	23	1	4
Liberal Arts	258	105	58	53
Mineral Ind.	258	6	2	1
Physical Ed.	31	9	5	1
General Graduates	14	15	....	....
Interdisciplinary	50	3	....	....
Total at Univ. Park	1827	329	142	114

Non Resident Summary

Non Resident Credit	
Cont. Ed. Graduate Students	274
Cont. Ed. Special Students	2119
Graduates in Absentia	98
Undergrad. Correspondence	727
Total	3218
Non-Resident Non-Credit	
Formal Cont.	528
Informal Cont. Ed.	5374
Correspondence	6368
Total	12270
Grand Total	15488

Grand Summary

Undergraduates	17941
Graduates	2587
Specials	2733
Short Courses	2496
Formal Cont. Ed.	2492
Informal Cont. Ed.	7008
Correspondence	6368
Grand Total*	41625

* This report includes all registrants received as of 4/30/63.

SENATE MINUTES

Meeting of May 7, 1963

The University Senate met at 3:55 p.m. on Tuesday, May 7, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 2, 1963 meeting were approved as printed in the *Faculty Bulletin* for April 12, 1963. One hundred fifty-two senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: D. H. Ford (J. D. Ashby), Coleman Herpel (K. M. Bailcy), E. P. Hexner (E. A. Myers), W. H. Hill (T. B. Brown), J. W. Hunt (Roy Ehman), M. W. Isenberg (L. A. Richardson), B. B. Lethbridge, Jr. (R. S. Stout), E. L. Mattil (Yar Chomicky), W. E. Meyer (R. D. Fellows), E. C. Pollard (Wayne Webb), W. H. Powers (K. V. Manning), H. J. Read (J. H. Hoke), J. J. Reid (H. W. Dunne), R. B. Saylor (O. H. Sauerlender), O. A. Schmidt (W. W. Ward), J. S. Spicer (D. R. Maneval), C. W. Stoddart, Jr. (C. A. Morchouse), and W. P. Winter (J. W. Siphron).

Communications were received from Vice President John R. Rackley and N. C. Pendered, Chairman of the Senate Committee on Faculty Affairs, concerning the filling of a position vacancy on the Tenure Committee. (See Registrar's note at the end of these minutes for subsequent actions).

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1963-1966 were read by the secretary as follows:

Agriculture—J. O. Almquist, J. S. Boyle, H. J. Poorbaugh, W. I. Thomas, E. G. Buss to replace J. J. Reid 1963-1965. R. C. Cowan to replace M. F. Mallette 1963-1964.

Business Administration—W. S. Decker, W. L. Ferrara, F. W. Kniffin, W. J. Schrader, R. M. Colwell to replace J. J. Kaufman 1963-1965. A. L. Williams to replace A. H. Reede 1963-1965.

Chemistry and Physics—W. G. Braun, C. G. Haas, Jr., E. W. Mueller, P. S. Skell.

Education—Y. G. Chomicky, M. L. Coulter, A. V. Kozak, D. G. Thevaos.

Engineering—G. B. Holt, Jr., O. E. Lancaster, H. A. Weeden, E. R. Weidhaas.

Home Economics—A. W. Melton, Jr., Ruth Pike, Elizabeth Ray, A. E. Tesi.

Liberal Arts—R. W. Brewster, M. B. Cramer, Leon Gorlow, W. W. Hassler, Jr., R. E. Buck to replace Orrin Frink 1963-1965.

Mineral Industries—A. K. Blackadar, M. L. Keith, P. L. Lewis, R. F. Schmalz.

Graduate School—R. D. Ayoub, K. R. Beitel, H. S. Brown, L. H. Lattman, Monroe Newman to replace Gerald Torkelson 1963-1965.

Physical Education and Athletics—F. M. Coombs, A. R. Gray, Lucille I. Magnusson, Antoinette M. Valentine, Herberta Lundgren to replace Barbara Hoepner 1963-1964.

Reports of Standing Committees

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed with the agenda as Appendix "A."

He commented on the report and moved that it be received by the Senate to lie on the table for consideration at the June meeting in accordance with Article V, Section 3 of the By-Laws. The motion was seconded and passed. The report contained the following recommendation:

That the nonvoting student member now provided for under Article II, Section I, 0-3B of the By-Laws be removed from this group and included in the voting membership under Section I, 0-3 A.

The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." He moved that the first part of the report as it pertained to curriculums and courses be adopted. The motion was seconded and passed.

Mr. Shelley then commented on the "Informational Report on HONORS PROGRAMS AND COURSES." He proposed that two changes be made in the recommendations which together, would add, in parenthesis, to number 5 on page two the following paragraph from the "Comments" on page three:

The undergraduate Honors thesis itself is defined as generally as possible, so that "a scholarly written report" upon a project may be thus considered, so long as it represents individual investigation or creation (e.g., in art, music, theatre arts, etc.) under the personal supervision of a thesis director and shows originality in content and/or organization.

Mr. Shelley stated that this "Informational Report" had been distributed to the members for discussion at this meeting but that action would not be taken until the next regular meeting of the Senate. There was discussion by Messrs. VanderMeer, Atwater, Shelley, Webb, Whisler, Jordan, and Murray. The report is as follows:

INFORMATIONAL REPORT HONORS PROGRAMS AND COURSES

At the March meeting of the Senate the Committee on Courses of Study presented for consideration and action its "Report and Recommendations Regarding University Honors Programs and Courses." Following discussion a motion was passed returning the matter to the Committee for reconsideration in the light of said discussion. Subsequently the Committee reactivated the subcommittee that had made the original reappraisal and the resulting recommendations regarding Honors programs and courses (with the replacements by A. T. Thompson of Ruth W. Ayres, who was incapacitated by illness); that committee has since reexamined the matter, conferred with interested parties, and made recommendations which are endorsed by the parent Committee.

As will appear, there is in the new recommendations some modification of the original ones; however, in the main, they remain unchanged, reflecting the committees' conviction that if the University is to offer Honors programs they should be of the highest possible quality. Rather than recapitulate

the introductory historical sections of the prior report and the one relating to costs of Honors programs (concerning both of which there was no disagreement) or repeat existing Senate regulations pertaining to Honors programs (of which the "Minimum Administrative Requirements" are to be left intact), the Committee presents instead its revised proposal relative to the "Minimum Academic Requirements" (item I below), setting forth in full the proposed new statement of requirements, incorporating recommended revisions and indicating them by underlining. The Committee also presents a second proposal (item II below) relative to several Honors courses which, although approved at present, are not part of corresponding Honors programs. The committee does wish to reiterate its endorsement of the subcommittee's conception of the central goals for Honors programs at Penn State:

1. To develop outstanding and independent student achievement.
 2. To enrich the educational experience of the student in breadth and depth beyond the normal program.
 3. To enable (and to cause) the superior student to work to maximum capacity.
1. Accordingly, in the knowledge that Honors programs are expensive and demanding in terms of both time and money and also in the belief that only programs of guaranteed excellence are worthy of the required expenditures, the Committee recommends adoption of the following revised statement of

Minimum Academic Requirements for the University Honors Program

1. In order to be eligible for participation in an Honors program a student must have at least fourth term standing and have attained either a cumulative grade point average of at least 3.00 or a 4.00 average in courses in his academic major. *Participation in the Honors Program is at the invitation of the Appropriate Honors committee. (VERBAL CHANGE FOR CLARITY)*
2. An Honors student must maintain a cumulative grade point average of 2.50 in order to remain in the Honors program. (NO CHANGE)
3. *In order to qualify for an Honors diploma the student must complete twelve (12) credits of Honors work. These twelve (12) credits are to be part of, rather than in addition to, the minimum requirements for graduation.*
4. *Of the twelve (12) credits of Honors work not fewer than six (6) are to be assigned to courses designed specifically for, and open only to, students officially enrolled in an Honors program.*
5. *Of the twelve (12) credits of Honors work not fewer than three (3) or more than six (6) are to be devoted to an undergraduate Honors thesis. Such a thesis should be a scholarly written report and may be based upon a project. (The undergraduate Honors thesis itself is defined as generally as possible, so that "a scholarly written report" upon a project may be thus considered, so long as it represents individual investigation or creation [e.g., in art, music, theatre arts, etc.] under the personal supervision of a thesis director and*

shows originality in content and/or organization.)

6. Each student must take and pass a comprehensive examination administered by the Honors committee. (NO CHANGE)
11. In order to protect the integrity of approved Honors programs, the Committee recommends adoption of the proposal that "Within three years all courses designated as Honors courses must be part of a formally approved Honors program. Otherwise they will no longer be designated or described as Honors courses or they will be dropped."

The Committee further recommends that serious consideration be given to the following propositions:

1. The minimum requirement of twelve (12) credits ought to be increased by nine (9) additional credits of regular, advanced-level course work in the same or related areas, i.e., courses at the 400 and 500 levels or Honors courses in other areas.
2. For the Honors courses to be truly effective, the teachers selected should have a genuine commitment to Honors work. It is desirable that these teachers be well qualified with respect to such qualities as: ability to analyze and synthesize, scholarly potential and accomplishment, intellectual leadership, and a deep feeling for student development.

3. Further to ensure success of each Honors program an effective advisory system should be devised and established. As a minimum such an advisory system should provide each Honors student with a committed Honors adviser who would meet with the student at least twice per term. At these meetings the advising and counseling would be concerned with such matters as a student's entire program of studies, his general academic progress, his use of the University's resources to increase the value of the total program to him, and the relation of his activities in the University to his academic and vocational objectives.

4. In the thesis work the student must have regular individual instruction and consultation with a thesis adviser. Two of the most important incentives for the student to undertake Honors work are the opportunity to have contact in depth with one or more faculty members and to feel that he is a part of a research and scholarly effort.

In addition the Committee takes this occasion to repeat its announcement in the prior report of new procedures for proposing Honors programs and courses. Superseding previous procedures for proposing Honors programs and courses, hereafter the prescribed procedure will be the same as that for other Senate-approved programs and courses, viz., the submission under regulations prevailing in the several Colleges to the Senate Committee on Courses of Study of the program and component courses simultaneously and on the respectively appropriate forms. Following approval by the Senate of the recommendation of favorable action by the Committee, the Vice-President for Resident Instruction will certify to the Registrar that honors are to be awarded to, and designated on the diploma of, qualified

students in the authorized subject, field, or discipline.

Comments

The revised proposals relating to the inter-related requirements of Honors courses "designed specifically for, and open only to, students officially enrolled in an Honors program" and of an undergraduate Honors thesis permit three different combinations of the factors comprising these minimum requirements:

1. Nine (9) credits of Honors course work thus restricted and three (3) credits for the Honors thesis
2. Six (6) credits of Honors course work thus restricted and six (6) credits for the Honors thesis
3. Six (6) credits of Honors course work thus restricted, three (3) additional credits of course work of the requisite quality but lacking the exclusive enrollment feature (e.g., certain courses at the 400 level), and three (3) credits for the Honors thesis.

[As already noted, the paragraph originally appearing here has been added as a parenthetical statement at the end of the fifth of the "Minimum Academic Requirements" listed above.]

The possibility exists for highly qualified students who meet the pertinent prerequisites to be admitted to an Honors program and to take Honors in an area other than their major field of study, e.g., students enrolled in a curriculum in Engineering or in Physics might qualify for the Honors program in Mathematics.

There also exists the possibility of organizing Honors programs in academic areas larger than individual curriculums or majors, e.g., Biological Science.

The complete report is on file in the office of the secretary.

Comments and Recommendations for the Good of the University

President Walker summarized twenty-five recent happenings each of which indicated the continuing development of the University and which filled him with personal pride.

The next regular meeting of the Senate will be on Tuesday, June 4, 1963; the agenda will be distributed on May 21, 1963.

The meeting adjourned at 4:39 p.m.

(Registrar's Note: The following communication was received from N. C. Pendered, Chairman of the Senate Committee on Faculty Affairs:

At the meeting of elected senators following the regular Senate meeting on May 7, the following two proposals, relative to the Standing Committee on Tenure, were passed unanimously:

1. In the event an elected member of the Tenure Committee is unable to serve by virtue of being on leave or temporarily incapacitated, it shall be the duty of the Chairman of the Tenure Committee to notify the elected members of the Senate in order that they may choose a temporary substitute.
2. In the event an elected member of the Tenure Committee resigns from the committee or leaves the University, it shall be the duty of the Chairman of the Ten-

ure Committee to notify the elected members of the Senate in order that they may choose a replacement.

The above are respectfully forwarded to you as recommendations of the elected senators.

Professor Warren S. Smith of the College of Arts and Architecture was elected to serve as temporary substitute on the Standing Committee on Tenure in place of Professor Brewster until the latter returned from leave of absence on or about September 1, 1963.

Robert G. Beinreuter
Secretary

Calendar—

(Continued from page one)

Propagation Studies of Polymers" and D. R. Morrow, on "Study of Polymer Single Crystals."

Biophysics Seminar on Photobiology, 2:20 p.m., Room 300 Walker. Dr. J. J. Wolken, visiting lecturer in biophysics, on "Photosynthesis."

Tuesday, May 21

Varsity golf, vs. Pittsburgh, 1:30 p.m.

Wednesday, May 22

Lecture by Dr. Orr E. Reynolds, N.A.S.A. director of bioscience programs, 4 p.m., Mineral Industries Auditorium, on "The Future of Environmental Biology and the Contribution of Space Research."

Thursday, May 23

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. W. D. Wolf, Yale University, on "The Ising Model and Real Magnetic Crystals."

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Albert Haim, on "Reactions of Iodopentammine Cobalt (III) with One- and Two-Electron Redox Reagents."

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Psychology lecture, by Dr. Howard Kendler, New York University, 8 p.m., Room 209 Home Economics South.

Friday, May 24

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. Helmut G. F. Winkler, University of Goettingen, Germany, on "Much Basalt and Little Gabbro—Little Rhyolite and Much Granite."

Biophysics Seminar in Photobiology, 11:10 a.m., Room 300 Walker. Dr. J. J. Wolken, on "Vision."

LECTURE

Dr. Norwood F. Hanson, member of the faculty at the University of Indiana, will address a Philosophy Colloquium today (Friday) at 8 p.m. in Room 214 Boucke. He will speak on "LaPlace and Goedel: An Analogy."

Alumni Fund

The current Alumni Fund contributions have reached \$196,271.68 from 6,574 persons.

Registrar Reports on Enrollment for Spring Term, 1963

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
ABSc	6	2	181	16	27	249	37	45	238	39	32	245				927	190	1117
2-yr. Ag.	1	2	10		1	6										20		20
Total	7	4	191	16	28	255	37	45	238	39	32	245				947	190	1137
ARTS AND ARCHITECTURE																		
A Art				3	2	30	9	2	37	1	3	23				36	75	111
Arch			45	4		44	6	4	39	2	2	23		4	2	186	6	192
Arts	1		1		3	19	4	2	16	5	1	5				15	42	56
A&A			4	43												23	24	47
LArch		1	4	1	1	16	1	1	23	2		12				59	3	62
Total	1	5	94	8	6	109	20	9	115	10	6	63	4	2	17	319	150	469
BUSINESS ADMINISTRATION																		
Total	3	13	326	33	39	323	79	79	412	73	76	313				1674	95	1769
CHEMISTRY & PHYSICS																		
C&P	9	3	263													236	39	275
ChE				3	1	46	11	5	56	3	7	57				187	2	189
Chem				2	6	59	8	3	26	10	3	24				120	21	141
Phys			1	5	4	36	10	7	34	11	11	23				134	8	142
PM			1	3	44	8	6	40	7	7	30					130	16	146
SC			1	2	16	2	3	16	8	6	21					68	7	75
Total	9	3	264	12	16	201	39	24	172	39	34	155				875	93	968
EDUCATION																		
AEd				6	7	23	15	13	32	15	10	33				17	137	154
Ed	26	14	391													88	343	431
EKEd				39	20	185	63	43	254	47	31	190				18	854	872
IARt			1	4	4	1	3	5	5	7	10					40		40
MuEd			1	15	4	6	13	6	13	6	17					31	31	62
Psy			6	7	85	17	21	87	19	30	71					209	134	343
RehEd				8	10	26	5	6	14							27	52	79
SecEd			20	27	229	53	65	234	47	53	178					429	477	906
ViEd						1			1	1						3		3
Total	26	14	391	73	65	549	164	161	651	145	137	514				862	2028	2890
ENGINEERING																		
AcSP				3	6	68	7	11	44	13	6	43				201		201
AgE		1	19			8	1	1	6	3	2	7				48		48
AE		1	17	1		8	1	2	6	1	4		1	1	7	50		50
CE			1	5	31	20	5	18	48	9	29	21				186	1	187
EE			8	14	137	47	29	149	31	36	173					617	2	619
Engr	14	16	497													523	4	527
EMch				2		8		2	15	3	2	17				49		49
ESc					3	11	1		17	1	15					47	1	48
IE					3	29	5	8	39	8	8	31				131		131
ME			4	11	68	9	9	79	21	10	77					287	1	288
SE							1				1					2		2
Total	14	18	533	19	42	367	91	62	374	129	73	397	22	1	7	2141	9	2150
HOME ECONOMICS																		
HEc	1	7	103	45	8	144	32	21	120	22	18	107				83	545	628
2 HFS			28	2	1	17										45	2	48
Total	1	7	131	47	9	161	32	21	120	22	18	107				128	547	675
MINERAL INDUSTRIES																		
Cer T							12	1	1	16	1	2	11			43	1	44
FT							12			4	3	8				27		27
Geog					1			1		5		6				11	1	12
CSc																55	3	58
Metal			1	3	10	3	4	15	8	3	11					63		63
Meteo			22	1	4	17	6	2	19	2	32					80	4	84
MnEc					4	1	2	5		1	7					20		20
MnI	6	1	47	5	2	4	1									65	1	66
MPE								3		1	4					8		8
Mng E				4	6	4	1	1	2	1	6					24		24
PNGE					5	2	2	1	1	7						18		18
Total	6	1	47	10	11	90	15	14	87	20	12	111				414	10	424
PHYSICAL EDUCATION & ATHLETICS																		
PhEd		5	32	8	4	40	12	9	47	11	6	58				133	99	232
ReEd					7	2	2	2	13	4	2	11				26	15	41
Total		5	32	8	4	47	14	11	60	15	8	69				159	114	273
DIVISION OF COUNSELING																		
Total	6	18	267	26	37	215	36	21	48	12	1	3				608	82	690

Survey—

(Continued from page one)

The Variables:

Question 1—GPA-1 students (those with grade averages between 0.0 and 1.4) showed greatest agreement, 58%; only 21% of GPA-6 students (those with averages 3.5-4.0) indicated agreement. Agreement also varied somewhat with class; 36% of freshmen agreed, only 17% of seniors. 43% of Home Economics students but only 14% of Business Administration students agreed.

Question 2—Least agreement was shown by GPA-1 students, 48%, even though agreement ranged from 69% to 80% for other GPA-groupings. Of the men, 67% agreed; of the women, 84%. Among other variables agreement centered around that of Total Response.

Question 3—more seniors, 32%, agreed, than freshmen, 18%. More men, 28%, than women, 19%, agreed.

Question 4—none of the variables produced any major deviation from Total Response.

Question 5—again variations from Total Response were not great.

Question 6—of DOC students, 71% agreed and of Physical Education students 92% agreed, the extremes among the colleges. 87% of women and 77% of men agreed.

Summary

More than 90 per cent of the respondents expressed a "need for more student participation in formulating rules and regulations" and only 27% believe that "governmental organization . . . (is) a good example of democracy." However, only 10% think that most rules and regulations seem purposeless and nearly three-fourths think that the rules do not unduly restrict student activities.

Only a fourth of the students think "a curfew for girls is unnecessary and does not accomplish anything."

And, four-fifths think that "the rules . . . are fair and necessary."

Honored—

(Continued from page one)

Schweitzer's 70th birthday. The article described Dr. Schweitzer's many accomplishments in the diesel engineering field and said that he had made Penn State known the world over as one of the foremost diesel research centers.

Leaves

The following leaves have been approved for faculty members:

Dr. William A. Steele, associate professor of chemistry, Sept. 1 to Aug. 30, 1964, to study statistical mechanics of irreversible processes at the University of Brussels under a National Science Foundation grant.

Dr. Philip A. Klein, associate professor of economics, for Fall, Winter and Spring Terms, will be guest lecturer in economics at the Institut Europeen d'Administration des Affaires at Fontainebleau, France, under a Fulbright grant, and conduct research.

Dr. William J. Pervin, associate professor of mathematics, Jan. 1 to March 28 of next year, to serve as visiting professor of mathematics at Heidelberg University, Germany.

Dr. Robert E. Clark, professor of sociology, Sept. 22 to March 22 to work on a criminology textbook.

Dr. Franklin A. Miller, head of the department of educational services, September to March, 1964, to visit major universities in the United States and also the University of Hawaii for a review of their programs on educational administration. He will also travel to India with a group from the University Council in Educational Administration for a study tour of Indian schools.

Dr. George F. Deasy, professor of geography, Jan. 1 to June 30, 1964, to visit bituminous coal regions of several states to compare economic and technical aspects of the Pennsylvania bituminous industry with those in competitive states.

Dr. Robert K. Murray, head of the department of history, June 15 to Sept. 14, to travel to the West Coast to observe the operation of history departments at seven universities and colleges on the West Coast.

Dr. C. W. Pierce, professor of agricultural economics, July 1 to Sept. 30, to visit universities and members of the dairy industry in several Midwestern states to conduct a study on the methods used to pay for milk on the basis of solids.

John H. Holbert, county agricultural agent in Bedford County, October to March, 1964, to work toward his master's degree in agriculture at Penn State.

Frank S. Zettle, assistant director of agricultural and home economics extension services, Sept. 1 to August, 1964, to do graduate work at the University of Wisconsin.

Dr. E. B. Hale, professor of animal behavior, October through March 31, 1964, to complete a textbook titled, "Principles of Animal Behavior," co-authored with Dr. Martin W. Schein, associate professor of animal behavior.

Dr. Owen H. Sauerlender, associate professor of economics, Fall and Winter Terms, to do research on basic decision theory in economics.

Ray W. Reitz, county agricultural agent for Carbon County, Sept. to February, 1964, to work for his master of science in extension education degree at Colorado State University.

Harold L. Lockhoff, Huntingdon County agricultural agent, January through June, 1964, to work for his master of science degree in agriculture at Colorado State University.

James J. McKeehan, Delaware County agricultural agent, June 1, 1964, to November, 1964, to study at Colorado State University.

Dr. Donald E. H. Frear, professor of agricultural and biological chemistry, Aug. 1 to Jan. 31, to attend the Fifth International Pesticides Conference in London and to spend several months on a survey of non-conventional chemical notation systems in Europe.

faculty BULLETIN

Vol. 50, No. 42 May 17, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

PERSONNEL MATTERS

Dr. Harold F. Graves, who joined the faculty as instructor of English, will retire July 1 as emeritus professor. A graduate of Wesleyan University, with master's and doctor's degrees from Penn State, he is the author of several books: "The Art of Argument," published in 1927 with C. B. Spotts; "Report Writing," written in 1929 with C. G. Gaum and revised in 1942 and 1950; "Types of Persuasion," written in 1938 with J. S. Bowman; and "From Fact to Judgment," written with Bernard Oldsey, in 1957, revised last April.

Paul H. Margolf will retire as professor emeritus of poultry science July 1 after 41 years at Penn State. One of the State's outstanding researchers in poultry and poultry products, he was named "Poultryman of the Year" last summer by the Pennsylvania Poultry Federation; received the Poultry Science Association's outstanding teaching award in 1954; and was cited for excellence in teaching in 1959 by the University. He came here as a Winter Course student in 1922 and worked on the poultry farm, being named superintendent of the poultry plant a year later. For the next ten years he took several courses each year and in 1937 received the B.S. degree and was appointed to the faculty. In addition to his University teaching and research, he taught inmates at Rockview for 23 years.

Dr. George F. Johnson, professor of agricultural extension and a pioneer in the development of visual aids for agricultural and home economics ex-

(Continued on page three)

Alumni to be honored announced

Dr. Elizabeth B. Brown, a 1930 graduate in arts and letters, has been named Penn State Woman of the Year and six other graduates have been designated Distinguished Alumni for 1963. All will receive their honors June 15.

The six alumni chosen for the award are:

Dr. F. Bruce Baldwin, Philadelphia, president of Abbotts Dairies.

Harold F. Butler, Short Hills, N.J., retired from the law firm of Sullivan and Cromwell; retired vice-chairman of the Board of Allegheny Power System, Inc.

Fletcher L. Byrom, Oakmont, president, Koppers Co., Inc.

Samuel K. Hoffman, Tarzana, Calif., president, Rocketdyne Division of North American Aviation, Inc.

Erle Martin, West Hartford, Conn., vice president for research and development, United Aircraft Corp., East Hartford, Conn.

Walter W. Patchell, Philadelphia, vice president, Special Services, Pennsylvania Railroad.

Dr. Brown is a Philadelphia physician. She established the allergy service at Hahnemann Medical College and is medical director of Leland Brown Laboratories in Upper Darby.

Conference starts

The International Conference on Plant Tissue Culture, one of the current NATO advanced Study Institute programs, will be held here May 28 to June 1, with Dr. Philip R. White, distinguished visiting professor of botany, as convening secretary.

Forty-eight papers in six areas of study will be given. The areas to be covered are cell, tissue and organ nutrition; metabolism; histogenesis and morphogenesis; single cell cultures; genetics and cytology; and pathology.

In addition to NATO support, aid is also being given to the Conference by the University, the Direction des Relations Culturelles (France), Ministère de l'Instruction Publique (Belgium); University College, Swansea, Wales; and the Councils of Scientific Research and universities of Czechoslovakia, Germany, Italy, Japan, and Sweden.

USG Arts Festival

The University Student Government Art Festival will feature a variety of activities this weekend.

Today (Friday) an exhibition and sale of photography and architecture will be held in the courtyard of the HUB from 10 a.m. to 5 p.m., sponsored by the Penn State Camera Club. At 1 p.m. a lecture on "The Art of Photography" will be held there. Both events will move indoors to the main lounge in case of rain.

At 2:30 p.m., Dr. Carl Barnes, instructor of art and architectural history will give a slide lecture on "The Philosophy of Architecture." At 4 p.m., a symposium will be held in the HUB assembly room featuring Dr. Walter H. Walters, George Zoretich, Chadwick Hansen, Dr. Leonard Raver on the subject, "Expression and Interpretation."

At 8 p.m., two original one-act plays written for Five O'Clock Theatre and a performance by The Arts Company will be given in the Pavilion Theatre. Tickets at HUB desk.

Saturday's events will include a clothes-line exhibition and art sale at the HUB Terrace, from 10 a.m. to 5 p.m. At 1:30 p.m. an informal jazz concert will be staged by the Penn State Jazz Club at the art sale and at 2, 2:30, and 3 p.m. members of the Modern Dance Club will present interpretive dances to the jazz back-

ground. At 2:45, 3:15, and 3:45 p.m., members of the University Readers will present poetry readings. All events will move to the HUB ball room in case of rain.

Also on Saturday, from noon to 5:30 p.m., all comers will have the opportunity to paint an abstract on the Modern Art Fence, with painting supplies to be furnished.

A performance by the Meditation Chapel Choir, directed by James Beach, will feature the evening program, beginning at 8:15 p.m. in Schwab Auditorium.

Sunday's program will include the annual spring concert of the University Symphony Orchestra at 3 p.m. in Schwab Auditorium. At 8 p.m., on the lawn in front of Old Main, the annual Student Artists Series will be staged, featuring student performances of classical and contemporary arts. The event will be staged Monday, May 27, at 8 p.m. in case of rain on Sunday.

All events are free but donation boxes will be provided, the money to go to an auditorium.

During the three-day program art exhibitions will be held at HUB Gallery, Chambers Building, the HUB courtyard, and Temporary Building Gallery. Architecture exhibits will be staged in Hammond Lounge, and the third floor of Sackett Building.

The Arts

music

James W. Beach will direct the sixth annual spring concert of the **Meditation Chapel Choirs** tomorrow (Saturday) at 8:15 p.m. in Schwab Auditorium.

The program will include "Four Psalms," by Heinrich Schuetz; "Above the Stars," by Thomas Tomkins, arranged by Denis Stevens; "Mass in G," by Franz Schubert; and "Te Deum," by Flor Peeters.

Soloists will include Margaret Shober, Joseph Krimmel, Dorothy Muller, Parker Crouse, Robert Fought, and others singing in small groups will include Donna Hartman Normandie Herriott, Kay Shaffer, Vesper Stevenson, and Dorothy Tressler.

Sunday, May 26, Theodore Karhan will conduct the **University Symphony Orchestra** in its spring concert at 3 p.m. in Schwab Auditorium. Featured with the Orchestra will be Donald Hopkins, violinist, and Raymond Page, violist, in Mozart's Symphonie Concertante K.V. 364 for violin, viola, and orchestra.

Also on the program will be Max Bruch's Prelude to the Opera "Loreley"; theme and variations, Opus 42, by Erich Korngold; Fantasy for Orchestra by Noah Klauss; and two dances from the "Bartered Bride," by Smetana.

Tuesday, May 28, Allan R. Mandel, visiting lecturer in music for the Spring Term, will give a piano concert in Schwab Auditorium at 8:30 p.m. His program will include "Sonata in E Flat Major" by Mozart; Sonata No. 3, by Hindemith; Sonata in A Flat Major, Opus 110, by Beethoven; and Fantasie in C Major, Opus 17, by Schumann. The recital is open to the public.

The final musical event of the Spring Term will be the concert by the Blue Band **Sunday, June 2**, at 3 p.m., with James W. Dunlop, conducting.

Exhibit

The centenary of the birth of George Gray Barnard, noted American sculptor born in Bellefonte, is being observed today (Friday) with a comprehensive exhibit in the lobby of the Pattee Library.

Featured in the exhibit are fragments of models, photographs of his work, and numerous letters, documents, and other memorabilia. Dr. Harold E. Dickson, professor of art and architectural history, arranged the exhibit which will continue until the end of June.

Television permit

The University has made application to the Federal Communications Commission for a construction permit and authorization to use UHF Channel 69 for educational television purposes.

Establishment of the station would make possible expansion of the existing program of the University and extension to all parts of the State when the proposed statewide network goes into operation.

Plans call for use of some of the existing studio facilities on the campus and construction of the transmitter tower on Tussey Mountain.

Philosophy

The Western Pennsylvania Philosophical Society meets at the University Park campus tomorrow (Saturday) in the Hetzel Union Building.

At 10:30 a.m., Dr. Kurt Baier, chairman of the University of Pittsburgh philosophy department, will speak on "The Will and Action," in Room 212 HUB.

Following lunch and a business meeting, Dr. Marvin Farber, University of Pennsylvania, will speak on "Existence and the Life World" at 2:15 p.m.

Presentation of the Ray H. Dotterer Scholarship to the outstanding philosophy major in the junior class will be made to Richard R. Adami.

Frizzell contest

The annual John Henry Frizzell Extempore Speaking Contest will be concluded Tuesday, May 28, at 7 p.m. in Room 10 Sparks. Finalists in the contest will each speak for eight to ten minutes without notes.

First prize in the contest is \$50 and the John Henry Frizzell Award of Merit in Extempore Speaking. Second prize, provided by the Forensic Council, is \$25 and a similar award of merit.

The contest, possibly the oldest college speaking contest in the country, is named for the first head of the department of speech who retired June 30, 1946, after nearly 45 years of teaching.

Architecture

Sibyl Moholy-Nagy, professor of architecture at Pratt Institute and widow of the noted painter, photographer, and stage designer, Laszlo Moholy-Nagy, will speak on "Architecture and Moon Age," Monday, May 27 at 8 p.m. in Mineral Industries Auditorium. The talk is sponsored by the department of architecture.

CALENDAR

Friday, May 24

Opening of USG Art Festival, continues Saturday and Sunday.

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. J. J. Wolken, on "Photochemistry of Visual Pigment."

College of Agriculture Faculty meeting, 3:55 p.m., Room 109 Armsby.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Motion picture, "Schlieren."

Saturday, May 25

Varsity baseball, vs. Delaware (two games), 1 p.m.; varsity golf, vs. Cornell, 1:30 p.m.; varsity tennis, vs. Pittsburgh, 2 p.m.

Hillel Foundation program by Solomon and Mira Yakim, pantomimists, and Mira Gilbert, folksinger, 9 p.m.

Meeting of Western Pennsylvania Philosophical Society, 10:30 a.m., HUB Room 212.

Meditation Chapel Choirs concert, 8:15 p.m., Schwab.

Sunday, May 26

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Hartland M. Helmich, secretary for campus ministry, United Church Board for Homeland Ministries on "Who Is This God?"

Hillel Foundation Graduate Student Association lecture by Dr. Neal Riemer, professor of political science, on "Politics of Tomorrow," 8 p.m.

University Symphony Orchestra concert, 3 p.m. Schwab.

Monday, May 27

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Nancy Vanderpool, assistant to the dean of women, on "Sororities: In Academia or Out."

Architecture lecture, 8 p.m., Mineral Industries Auditorium. Sibyl Moholy-Nagy, Pratt Institute, on "Architecture and the Moon Age."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. Prof. M. G. Sharma, on "Bulk Viscoelasticity."

Tuesday, May 28

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. H. A. Finch, professor of philosophy, on "Spiritual Value of Mechanical Things."

Concert by Allan R. Mandel, visiting lecturer in music, 8:30 p.m., Schwab Auditorium.

Wednesday, May 29

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Leslie S. G. Kovaszny, department of mechanics, Johns Hopkins University, on "Recent Studies of Transition."

Thursday, May 30

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Prof. L. Wolfenstein, Carnegie Institute of Technology.

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. Alan Schriesheim, Esso Research and Engineering Co., on "Hydrocarbon Carbanions."

Friday, May 31

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Edward L. J. Potts, University of Durham, on "Rock Mechanics."

Grants

(A summary of recently received contributions, awards, and research contracts.)

Mary L. Dodds, foods and nutrition, \$8,830, U. S. Public Health Service, for study of cariogenic properties of heat-processed foods.

Franklin A. Miller, educational services, \$1,068, The Pennsylvania School Study Council, for the A. Bruce Denniston Memorial Award Graduate Assistantship.

M. R. Fenske and Rodney Hersh, chemical engineering, \$20,000, Penna. Grade Crude Oil Assn., for improvement of economic utilization of Penna. crude oil.

E. L. Bergman, horticulture, \$1,150, Aluminum Co. of Canada, for research in vegetable nutrition.

Rustum Roy, geochemistry, \$25,426, U. S. Army Signal Supply Agency, for crystal chemistry studies.

B. F. Howell, Jr., geophysics, \$7,800, National Science Foundation, for seismic measurements of crustal structure in Minnesota.

O. F. Tuttle, W. E. Delaney, and Rustum Roy, materials research laboratory \$39,680, U. S. Public Health Service, for isotope and element fractionation in disease.

J. C. Johnson, Ordnance Research Laboratory, \$205,000 Department of the Navy, for operation of the Laboratory.

R. M. Lundy, psychology, \$70,423, U. S. Public Health Service, for mental health training grant in clinical psychology.

Jerome E. Singer, psychology, \$17,228, U. S. Public Health Service, for study of epinephrine as an emotional multiplier.

C. B. Broderick, child development and family relationships, \$8,224, U. S. Public Health Service, for development of interpersonal attitudes among children.

Thomas F. Bates, mineralogy and petrology, \$22,520, National Science Foundation, for scientific equipment program.

A. R. Grove, botany and plant pathology, \$24,870, National Science Foundation, for scientific equipment program.

D. B. Harris, psychology, \$12,030, U. S. Public Health Service, for training program in school psychology.

Dean Asquith, Arendtsville, \$1,000, Thompson-Hayward Chemical Co., for studies of acaricides on orchard mites.

F. H. Lewis, Arendtsville, \$1,000, Rohm and Haas Co., for fungicide research.

T. S. Spicer, mineral preparation, \$6,000, Glen Alden Coal Co., for low-ash anthracite studies.

R. W. Lindsay, metallurgy, \$1,000, Lee Wilson Engineering Co., for ferrous metallurgical investigations.

H. B. Couch, botany, \$30, American Phytopathological Society, for aid to staff members attending scientific meetings.

E. M. Kesler, dairy science, \$1,500, Cooperative GLF, for silage research.

L. R. Kuechone, botany, \$2,000, The Fox Co., for mushroom culture research.

J. S. Lindzey, wildlife research, \$12,000, Penna. Game Commission, for research, extension, and demonstration projects in wildlife administration and management.

W. J. Ross, electrical engineering, \$161,713, N.A.S.A., for ionospheric studies.

Dean Asquith, Arendtsville, \$500, Stauffer Chemical Co., for fruit insect studies.

J. W. Mastalerz, horticulture, \$500, The Joseph H. Hill Memorial Foundation, for rose research.

A. R. Grove, botany, \$700, The Squibb Institute, for field research on fungicides.

Joseph A. Dixon, chemistry, \$54,000, American Petroleum Institute, for synthesis and properties of high molecular weight hydrocarbons.

T. H. Cheng, zoology and entomology, \$3,000, Geigy Agricultural Chemicals, for livestock insect control studies.

E. W. Mueller, physics, \$19,994, Office of Naval Research, for development of improved field ion microscope.

D. H. Rank, physics, \$15,000, Office of Naval Research, for studies of energy levels of polyatomic molecules.

Personnel—

(Continued from page one)

tension work, will retire July 1 with emeritus rank. In 1957 he received the "Superior Service Award" of the U. S. Dept. of Agriculture, and in 1961 he received the American Agricultural College Editors Association Award. He has exhibited widely in national and international exhibitions of visual instructional materials and color photography. He has served for the past 10 years as visual aids editor of "Farm Technology." A graduate of Ohio State, he received both master's and doctor's degrees at the University of Wisconsin and before coming here in 1936 was with the Pennsylvania Dept. of Agriculture as director of the Bureau of Statistics and Information and was publicity director for the Farm Show.

Dr. Ollie D. Burke will retire July 1 as professor emeritus of plant pathology extension after serving on the extension faculty for 28 years. Much of his work has been with vegetable growers especially on the diseases of potatoes, cabbages, and other vegetables, and of ornamental flowers and plants. A graduate of the University of Arkansas, he received the doctor's degree from Cornell University and taught in schools in Arkansas and Mississippi before coming here.

Frederick H. Leuschner, a 1921 graduate of Penn State and a mem-

ber of the faculty since 1938, will retire July 1 as professor emeritus of agricultural extension. In his work he has specialized in poultry housing, management, nutrition, records and records analysis, and brooding systems. He was at the University of Maryland 1922-26; managing secretary of the Homestead, Pa., District Chamber of Commerce, 1926-32; poultry manager for a county home, 1932-35; extension poultryman at the University of Delaware, 1937.

Leaves

The following members of the faculty have been granted leaves of absence:

Dr. Edward L. Mattil, head of the art education department, July through December, to visit art centers, craftsmen and art educators in many European countries, and to tour universities and museums in the United States for research. He will also work on a revision of his book, "Meaning in Crafts."

Dr. Wayne Webb, professor of physics, will be on leave for the Summer Terms of 1964 and 1965 to visit five universities doing research in the field of high-pressure phenomena and later to visit universities in England, Holland, and France that operate research programs in high-pressure laboratories.

Clarence E. Craver, McKean County agricultural agent, October to

March, 1964, to work on his master's degree at Penn State.

Dr. Elton Atwater, head of the department of political science, June to September, to do research on three recently-created U. N. agencies in the field of economic development.

Appointments

Kenneth D. Burke, who retired from the Bennington College faculty last year, is currently serving as visiting professor of English. He is widely known for his works on literary criticism and on the theory of language. He is also a novelist, poet, translator and reviewer. He was only recently elected a member of the American Academy of Arts and Sciences.

Dr. James P. Houck, formerly instructor in agricultural economics at the University of Minnesota, has been named assistant professor of agricultural economics. He is a Penn State graduate and was granted the Ph.D. by the University of Minnesota.

Dr. Eugene J. Kelley, professor of marketing and former associate dean of the Graduate School of Business Administration at New York University, has been named research professor of business administration, effective with the Fall Term. He has also served at Michigan State University, Clark University, Worcester Polytechnic Institute, and the Babson Institute. He has also had industrial sales experience.

ALUMNI FUND

Total contributions to the 1963 Alumni Fund have reached \$202,247.13, provided by 7,148 contributors, through May 17.

FACULTY LUNCHEON CLUB

Nancy M. Vanderpool, assistant to the Dean of Women, will speak on "Sororities: In Academia or Out," at the weekly Faculty Luncheon Club Monday, May 27, at 12:30 p.m. in the HUB dining room "A."

MOVIE

A movie titled "Schlieren" will be shown at the Fluid Mechanics Seminar today in Room 232 Hammond Building at 4 p.m. The film demonstrates the application of black and white and color schlieren techniques to aerodynamic research in a high-speed wind tunnel. It is supplied by the Shell Oil Co., producers of the film.

HILLEL

A special program by Solomon and Mira Yakim, Israeli pantomimists, and Mira Gilbert, noted folksinger, will be presented at Hillel Foundation, Saturday, May 25, at 9 p.m. Admission for Hillel members is \$1.00 and for non-members, \$1.50.

NOTE

Enrollment statistics in last week's Faculty Bulletin showed "Resident Credit" totals in two different tabulations, the totals apparently disagreeing by 347. The lower table of the two included Continuing Education Part-time Graduate and Special students which the upper table did not, since the students in question are neither four-year or two-year students and are enrolled at "other campuses."

FILM LISTING

The Audio Visual Aids Library has published a second edition of "Films for Anthropology and Sociology," a 65-page descriptive listing. Copies of the catalogue may be obtained at Room 3, Pattee, or by calling UN 5-6314.

Student Survey

(Eighth in a series)

A series of questions was asked of students concerning the Administration of the University in the Student Attitude Survey conducted by the Office of Student Affairs last year.

	Per cent Agreement
7. The administrative policies at Penn State reflect the fact that the administration regards the students as adults.	31
8. The administration is only interested in rules that make their job easier, regardless of how the students feel.	30
9. Conflict between the administration and student body should not be taken too seriously.	17
10. By and large, student behavior in regard to the administration has been childish and immature.	31
11. The administration when forming policies and regulations is usually sensitive to students' needs and opinions.	34

The Variables:

Question 7—38% of the freshmen but only 23% of juniors agreed. Home Economics students split even on the question; Liberal Arts students indicated least agreement, 22%. **Question 8**—almost exactly 50% of GPA-1 students agreed; other GPA groups ranged from 22% to 33%. Variations among the Colleges were from 39% agreement for DOC to 24% for Physical Education.

Question 9—33% of GPA-6 group agreed with this, but agreement of other groups ranged from 15% to 18%. Among Colleges, agreement ranged from 12% to Physical Education to 32% for Mineral Industries.

Question 10—only the GPA-6 group (51%) varied greatly from the average. In other variables, deviations were not great.

Question 11—significant deviations were absent.

* * *

"In my opinion, difficulties at Penn State between the administration and the student body are . . ."

Total Response—three choices were given to the students. The percentage selecting each choice is indicated:

a. mostly due to the administration not being aware of student needs and opinions—12%.

b. due to both the administration being unaware of student opinion and the student being unaware of the administrative needs—77%.

c. mostly due to the students not being aware of problems and needs of the administration—11%.

The pattern of response was maintained across the variables.

Summary

For each of the items relating to the administration, the most frequently-chosen response was selected by at least two-thirds of the respondents.

The students feel that the administration doesn't regard them as adults and that student needs and opinions are not adequately considered when policies and regulations are promulgated.

However, they do not feel that the administration "is only interested in rules that make their jobs easier, regardless of how the students feel."

They do not agree that student behavior in regard to the administration has been childish and immature.

Conflict between students and administration is a serious matter.

Mutual lack of knowledge and communication is responsible for most of the differences between students and administration.

faculty BULLETIN

Vol. 50, No. 43 May 24, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor



faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Books

Dr. David E. Davis, professor of zoology, and Dr. Frank B. Golley, director of the Laboratory of Radiation Zoology and assistant professor of zoology at the University of Georgia, have collaborated on a textbook for undergraduates or for advanced courses in mammalogy, vertebrate zoology, and wildlife management. The book is titled "Principles in Mammalogy," and has been published recently by Reinhold Publishing Co., New York.

Dr. Alfred F. Buffington, professor of German, has authored a 139-page book on "Early Pennsylvania German Dialogues and Plays," published by the Pennsylvania German Society. The book traces the development of the Pennsylvania German dialect play, and includes selected plays taken from the Harry Hess Reichard Collection of unpublished plays. The dialect words have been re-transcribed according to the system of spelling used in the "Pennsylvania German Grammar" by Buffington and Barba published in 1954.

Hazel M. Hatcher, professor of home economics education, is co-author with Mildred E. Andrews of the book, "The Teaching of Home Economics," published by Houghton Mifflin Co. The book illustrates the need for teaching new methods and techniques to keep pace with the changes in all aspects of family life. A book titled, "Adventuring in Home Living" by the same authors was translated into Arabic and published in Lebanon.

Schempf named

Dr. John M. Schempf, associate professor of chemistry, has been appointed visiting professor of chemistry to work in the Summer Institute program for in-service training of college teachers at Baragali, Pakistan.

He will work under the direction of the University Seminars Organization of the Pakistani government.

The program, which parallels summer institutes for college teachers in this country, is supported by The Asia Foundation, which supports, educational, cultural, and civic activities with private American assistance.

Dr. Schempf was a Fulbright Lecturer at the University of Peshawar, in Pakistan, in 1958-59.

Film chosen

Excerpts from a film produced by the Motion Picture and Recording Studio have been included in a U. S. Information Agency film to be circulated in some 80 foreign countries to be shown on television and at public meetings.

The film is entitled "Eye for Tomorrow" and describes the development of Dr. Erwin R. Mueller's field ion microscope.

Delmar P. Duvall was cinematographer and Gerald Hutchison was editor for the film.

Microscope featured

The field ion microscope invented and developed by Dr. Erwin W. Mueller, research professor of physics, is featured in the magazine, "Amerika," published by the U. S. Information Office in the Soviet Union.

Titled, "A Galaxy of Atoms," the article describes Dr. Mueller's achievement in becoming the first scientist to see an atom.

Senate meets

The University Senate will meet Tuesday, June 4, at 3:55 p.m. in Room 121 Sparks.

COMMENCEMENT

Members of the faculty who plan to take part in the processional at Commencement Exercises Sunday, June 9, may obtain a special parking permit which will entitle them to park in the area closest to Beaver Stadium (or on old Beaver Field in case of rain) by calling Reed Ferguson, UN 5-2522. The exercises will be held at 10:30 a.m. in Beaver Stadium if outdoors, and at 10:30 a.m. and 1:30 and 3:30 p.m. if indoors at Recreation Building.

Action plan

Staff members of the University's Agricultural and Home Economics Extension Services have participated in the development of a plan of operations for neighborhood urban extension prepared by ACTION-Housing, Inc., on Allegheny Council to improve neighborhoods in Pittsburgh. The plan of operation offers suggestions for revitalizing aging neighborhoods.

The Penn State services will continue to serve as an educational resource to the proposed program, but are not committed to any specific phase of the project at the present time, according to R. E. Larson, director of the University's Agricultural and Home Economics Extension Services.

Basic surveys which preceded the establishment of the program were made by two Penn State staff members, Mrs. Kay Wetzel, 4-H home economist, and Edward Woods, Cambria County agent for the services.

Other Penn State staff members participating included Leland R. Bull, (now State Secretary of Agriculture), Mrs. Isabell Smith, Jr., Dr. Philip Sellers.

PERSONNEL MATTERS

The following leaves of absence have been granted:

George S. Zoretich, 1964 Spring and Summer Terms, to continue creative work in painting and sculpture.

Dr. Harrison T. Meserole, associate professor of English, April through August, 1964, to conduct research at the British Museum in preparation for his second book on American Poetic Theory.

Dr. Gerald R. Bosch, associate professor of education, January through June 15, 1964, to visit the Universities of California, Chicago, and Texas to observe operation of educational internships.

Dr. Joseph H. Britton, professor of child development and family relationships, July to June, 1964, to serve as guest lecturer in psychology at the University of Jyväskylä, Finland, under a Fulbright lectureship, and to present a paper to the International Congress on Gerontology in Copenhagen, Denmark, on "Change in Adjustment of Older Community Residents after Six Years."

N. Henry Wooding, agricultural engineering, for a year beginning Sept. 15, to work for his master's degree at Rutgers University.

Summer theatre ticket sales

Season tickets for the Pavilion Theatre summer program will go on sale Monday by mail, with the first production, "Waltz of the Toreadors," scheduled to begin June 18.

Max Fischer will again direct a cast of professional players which includes four actors familiar locally and two newcomers who have a wealth of stage experience.

Returning this summer are Esther Benson, Leon B. Stevens, Lydia Bruce, and Max Gulack, all of whom gave excellent performances in starring and supporting roles last summer. New to the University Theatre are John McKay and Alfred Leberfeld.

McKay has appeared on and off Broadway, in films, and on television. His Broadway shows include "Gift of Time," "A Man for all Seasons," "Under the Yum Yum Tree," and "The Lovers." He played the title role in a production of "Henry VIII" at the 1961 Shakespeare Festival in Stratford, Ontario, Canada. He has worked extensively at theatres in Atlantic City, Palm Beach, Newport, Washington, D. C., and Miami and spent six months at the Dramatic Arts Centre in Ann Arbor, Mich. His film credits include "Court Martial of Billy Mitchell" and "Captain Hornblower" and in television he has appeared on Studio One, Star Tonight, and Love of Life shows.

Leberfeld was seen on Broadway in "Seidman and Son" and he has also been in "The 49th Cousin" and others. He has appeared off-Broadway in Circle-in-the-Square, Cricket Theatre, Cherry Lane Theatre, Gate Theatre, and American Theatre Wing productions. He has been on such television shows as "The Defenders," "Car 54, Where Are You?" "Love of Life" and "DuPont Show of the Month." His summer stock experience includes many theatres in New England and he has been in a number of films, including "Middle of the Night" and "Cinema 16."

Esther Benson will be making her fourth area appearance, Leon B. Stevens and Lydia Bruce their third, and Max Gulack his second. Stevens has been active in television since last summer, including several appearances on the DuPont show, in the series, "The Nurses," and on "The Defenders." Last fall he starred in "The Night is Black Bottles," off-Broadway and in April was guest artist at Skidmore College. Miss Bruce starred with her husband in "The Night is Black Bottles" and has appeared also on several television programs.

Gulack was in Europe since last

summer, active in stage, radio, and films in Paris. He made a movie in which he plays an FBI inspector. He is a playwright in addition to being an actor and is currently working on several plays for possible New York production and has translated or adapted several plays from French to English.

Season tickets for the five productions in 1963 are priced \$10.50 for Tuesday through Saturday productions. First night (Monday) season tickets are priced at \$6.75.

Brochures explaining the five productions and special ticket features will be available at the box office and at the department of theatre arts in Schwab Auditorium.

music

James W. Dunlop will direct the Penn State Blue Band in its annual Spring Concert Sunday, June 2, at 3 p.m. on the steps in front of Pattee Library.

The concert will include The Corcoran Cadets, by Sousa; Alfred Reed's Festival Prelude; La Fiesta Mexicana by H. Owen Reed; Syncopa, by Joseph Distefano; Walt Whitman overture, by Norman Lloyd; the prologue from West Side Story, by Leonard Bernstein; A Sacred Suite, by Alfred Reed; Dixie, as arranged by Morton Gould; William E. Rhoads' Puerto Alegre; and Sousa's Stars and Stripes Forever.

Ned C. Diehl is assistant conductor.

art honors

Harold Altman, graphic artist and associate professor of art, has been honored in several ways recently. He is one of the winners of 18 grants of \$2,500 presented by the National Institute of Arts and Letters at ceremonies of the National Institute and the American Academy of Arts and Letters May 22. The citation said in part, "Harold Altman . . . has already received more than 50 awards for his work and has had 35 one-man shows."

An etching by Altman received a purchase award at the 31st National Graphic Arts Drawing Exhibition at the Wichita Art Association galleries for the work titled, "Park Conversa-

tion." Three other prints were selected for the exhibit also.

Altman was one of four American printmakers represented in an exhibition at the Galerie an Riga, Switzerland, in May.

recordings

Two long-play records, in either stereo or mono, featuring Denis Stevens, distinguished visiting professor of music, and his choral ensemble, The Ambrosian Singers, have been released in Europe and will be available soon in this country.

One record is the first recording ever made of a set of Italian part-songs composed by Beethoven when he was studying in Vienna with Salieri and was Kapellmeister to the Imperial Court. On the same record are humorous canons or catches by Beethoven and jotted down in letters to some of his friends.

The second recording is also a "first." It contains a masterpiece of Tudor music, the Mass "Tecum Principium" by Robert Fayrfax of the Chapel Royal, and his motet, "Eterne Laudis Liliun," written for Elizabeth of York.

CALENDAR

Friday, May 31

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Carl R. Miller, director, U.S.D.A. Sedimentation Laboratory, Oxford, Miss., on "Planning and Design in Channel Rectification and Control."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. E. L. J. Potts, University of Durham, on "Rock Mechanics."

Sunday, June 2

University Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, professor of humanities and religious studies, on "Honest To God."

Penn State Blue Band concert, directed by James Dunlop, 3 p.m., Pattee Library steps; Schwab Auditorium in case of rain.

Monday, June 3

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. M. Nelson McGearry, assistant to the president, on "Some Aspects of the Penn State Self-Evaluation Program."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. Walter Jaunzemis, on "Finite Linear Viscoelastic Theory."

Tuesday, June 4

University Senate meets, 3:55 p.m., Room 121 Sparks.

Wednesday, June 5

Spring Term classes end, 9:55 p.m.

Thursday, June 6

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. W. H. Adams.

Grants

(A summary of recently received contributions, awards, and research contracts.)

F. R. Axelson, engineering experiment, \$39,748, Penna. Dept. of Property and Supplies, for Power Plant Advisory Service.

K. E. Beasley, political science, \$15,000, Pennsylvania State Library, for study of Pennsylvania college, university and research libraries.

W. H. Powers, chemistry and physics, \$2,000, Pittsburgh Plate Glass Foundation, for Summer Institute for High School Teachers of Science.

Thomas Wartik, chemistry, \$3,000, American Cyanamid Co., for instruction programs in chemistry.

F. A. Hummel, ceramic technology, \$6,692, General Electric Co., for research in synthesis of phosphors and fluorescent materials.

J. Marin, M. G. Sharma, and V. Neubert, engineering mechanics, U. S. Army Research Office, for studies of dynamic stress-strain behavior of materials.

Joseph Jordan, chemistry, \$29,984, U. S. Atomic Energy Commission, for studies of electrochemistry and thermochemistry in fused salts.

William T. Sanders, anthropology, \$22,300, National Science Foundation, for study of prehispanic settlement patterns of Teotihuacan.

F. A. Wood and R. J. Hutnik, botany and forestry, \$12,000, Penna. Dept. of Agriculture, for oak wilt research.

H. W. Dunne, veterinary science, \$23,000, Penna. Dept. of Agriculture, for large animal diagnostic service.

Stephen Gordeuk, veterinary science, \$17,500, Penna. Dept. of Agriculture, for poultry diagnostic laboratory.

Dean Asquith, Arendtsville, \$500, Hercules Powder Co., for research on mites and insects.

—\$750, Union Carbide Chemicals Co., for fruit insects research.

F. H. Lewis, Arendtsville, \$600, EMC, for fruit disease research.

—\$500, Stauffer Chemical Co., for fruit disease research.

J. O. Almqvist, \$14,000, Penna. Association of Artificial Breeding Cooperatives, for research in the physiology of reproduction.

J. B. Washko, agronomy, \$3,000, Cooperative Grange League Federation, for studies in management of birdsfoot trefoil.

E. L. Bergman and D. E. Baker, horticulture, \$850, Pennsylvania Plant Food Educational Society, for research on soils and plant nutrition.

E. R. McLaughlin and V. L. Pease, Engineering experiment and architectural engineering, \$8,000, Pittsburgh Plate Glass Co., for studies of the thermal performance of a glass wall shaded by overhang.

E. R. McLaughlin and G. H. Albright, engineering experiment and architectural engineering, \$47,100, U. S. Office of Civil Defense, studies of natural ventilation in shelter spaces.

R. H. Essenhigh, fuel technology, \$94,592, U. S. Office of Naval Research, for studies in the pyrolysis and combustion of hybrid rocket fuels.

ITEMS OF INTEREST

Elect and Appointed

BOWMAN, J. L., industrial engineering, elected chair of the Mid-Pennsylvania chapter of American Society of Tool and Manufacturing Engineers.

COOMBS, F., Recreation education, elected vice president of the Recreation Division, American Association for Health, Physical Education, and Recreation.

DUBIN, S. S., psychology in Continuing Education, elected president of the Division of Business and Industrial Psychology, Penna. Psychological Association.

FISCHER, F. B., Continuing Education, elected to three-year term on the executive committee of the standing committee on business affairs, National University Extension Association.

GOLATZ, H., industrial relations, elected to the executive committee, University Labor Education Association.

HOWELL, B., Geophysics, elected president, Seismological Society of America.

KATKA, ANDRE, English at Hazleton, elected president of the Penn State Inter-Commonwealth Inpus Speech League.

KLAUS, E. E., Petroleum Refining Lab., appointed to the American Society of Lubrication Engineers—American Society of Mechanical Engineers Joint Conference Committee the 1964 International Lubrication Conference.

LUNDGREN, HERTA L., physical education, elected president of the Centre County Association Health, Physical Education, and Recreation.

MAGNUSSON, CHIEF, physical education, elected chair of the officiating section, Division of Men's and Women's Sports.

NIEBEL, B., Industrial engineering, appointed chair, Education Committee, American Society of Tool and Manufacturing Engineers.

RYDER, MARY N., physical education, elected secretary-treasurer, Centre County AHPER.

STEWART, W. C., Continuing Education, elected chair of the standing committee to plan programs and locations for Mid-Atlantic SUEA.

WHERRY, R., Commerce and management, appointed chairman of faculty from colleges and universities to advise the Insurance Commissioner of Pennsylvania on agents and brokers qualifications.

Leaves and Talks

ALDERMAN, ELET, Continuing Education, "New Fronts in Management," at a meeting of the National Association of Accountants Altoona, May 16.

BLUE, F. L., JR., civil engineering, "The Moosic Mot," at the spring meeting of the Structural and Hydraulics Committee, Pennsylvania Electric Association.

CHRISTY, LYN, English, "College Training vs. a College Education," at the Wyoming Center.

CREECH, R., Horticulture, "Genetic Determination of Carbohydrate Type and Quantity in Maize Endosperm," before the Genetics Seminar at Purdue University.

DAMERST, W. L., English, "An Extra Communication Toward the Future," at

the Eastern Regional meeting of the American Business Writing Association.

— "Who's Responsible for the Letters," at the Seventh Annual Educational Secretaries Conference.

DAVIS, C. T., English, "Impressionism as Cultural Impulse," at the English Club banquet, May 11.

DICKSON, H. E., art and architectural history, "The Lincoln Sculptures of George Gray Barnard," at the Tyler School of Art, Temple University.

DUBIN, S. S., Continuing Education, "A Comparison of Russian and Red Chinese Methods of Brainwashing" to the 2101 Research and Development Group, May 1.

— "Evaluating a Heart Association Program" at the Penna. Heart Association meeting, April 27.

ELLAS, E. M., York Campus, "The Two-Year Technical Graduate, Five Years Later," before the conference on "The Four Dimensions in Technical Manpower," sponsored by the University of Akron and the Akron Society of Professional Engineers.

HEIZ, MARY K., Health Center, discussion of the Mantoux test on a panel on tuberculin testing methods at the annual meeting of the American College Health Association.

GOODWIN, H. E., journalism, "The Journalism Professor Talks About the Newspaper," at the Newspaper Personnel Relations Association meeting in Pittsburgh.

GOODWIN, H. E., journalism, "Where do Newspapers Fail Journalism Schools," before the Pennsylvania Press Conference May 18.

LEIBOWITZ, H. W., psychology, "Some Problems in Perceptual Research," before the Carnegie Institute of Technology psychology department colloquium.

MACKENZIE, OSSIAN, Business Administration, "Accrediting Responsibility," at the 45th annual meeting of the American Association of Collegiate Schools of Business.

MORGAN, WINONA L., child development and family relationships, "The Revival of the Montessori Method of Education," at meeting of Lycoming County Penn State Club.

NAPIER, R. J., architecture, "What is the Architect Doing?" before the Williamsport Chapter of the American Society of University Women.

SHULTIS, SAM, civil engineering, "Rivers and Man" and "Effect of a River Constriction," at the spring meeting of the Structures and Hydraulics Committee, Penna. Electric Association.

STAFFORD, R. E., Student Affairs Research, a symposium on "Methods and Goals for Research in the Human Genetics of Behavior," at the University of Louisville.

TAFT, R. W., JR., chemistry, a seminar, "Some Applications of Fluorine Nuclear Magnetic Resonance Shielding to Problems of Physical Organic Chemistry."

— "Some Connecting Links between Structure-Reactivity Relationships and Molecular Change Distribution," at the University of Missouri School of Mines and Metallurgy.

(Continued on page six)

Summer theatre ticket sales

Season tickets for the Pavilion Theatre summer program will go on sale Monday by mail, with the first production, "Waltz of the Foreadors," scheduled to begin June 18.

Max Fischer will again direct a cast of professional players which includes four actors familiar locally and two newcomers who have a wealth of stage experience.

Returning this summer are Esther Benson, Leon B. Stevens, Lydia Bruce, and Max Gulack, all of whom gave excellent performances in starring and supporting roles last summer. New to the University Theatre are John McKay and Alfred Leberfeld.

McKay has appeared on and off Broadway, in films, and on television. His Broadway shows include "Gift of Time," "A Man for all Seasons," "Under the Yum Yum Tree," and "The Lovers." He played the title role in a production of "Henry VIII" at the 1961 Shakespeare Festival in Stratford, Ontario, Canada. He has worked extensively at theatres in Atlantic City, Palm Beach, Newport, Washington, D. C., and Miami and spent six months at the Dramatic Arts Centre in Ann Arbor, Mich. His film credits include "Court Martial of Billy Mitchell" and "Captain Hornblower" and in television he has appeared on Studio One, Star Tonight, and Love of Life shows.

Leberfeld was seen on Broadway in "Seidman and Son" and he has also been in "The 49th Cousin" and others. He has appeared off-Broadway in Circle-in-the-Square, Cricket Theatre, Cherry Lane Theatre, Gate Theatre, and American Theatre Wing productions. He has been on such television shows as "The Defenders," "Car 51, Where Are You?" "Love of Life" and "DuPont Show of the Month." His summer stock experience includes many theatres in New England and he has been in a number of films, including "Middle of the Night" and "Cinema 16."

Esther Benson will be making her fourth area appearance, Leon B. Stevens and Lydia Bruce their third, and Max Gulack his second. Stevens has been active in television since last summer, including several appearances on the DuPont show, in the series, "The Nurses," and on "The Defenders." Last fall he starred in "The Night is Black Bottles," off-Broadway and in April was guest artist at Skidmore College. Miss Bruce starred with her husband in "The Night is Black Bottles" and has appeared also on several television programs.

Gulack was in Europe since last

summer, active in stage, radio, and films in Paris. He made a movie in which he plays an FBI inspector. He is a playwright in addition to being an actor and is currently working on several plays for possible New York production and has translated or adapted several plays from French to English.

Season tickets for the five productions in 1963 are priced \$10.50 for Tuesday through Saturday productions. First night (Monday) season tickets are priced at \$6.75.

Brochures explaining the five productions and special ticket features will be available at the box office and at the department of theatre arts in Schwab Auditorium.

music

James W. Dunlop will direct the Penn State Blue Band in its annual Spring Concert Sunday, June 2, at 3 p.m. on the steps in front of Pattee Library.

The concert will include The Corcoran Cadets, by Sousa; Alfred Reed's Festival Prelude; La Fiesta Mexicana by H. Owen Reed; Syncopa, by Joseph Distefano; Walt Whitman overture, by Norman Lloyd; the prologue from West Side Story, by Leonard Bernstein; A Sacred Suite, by Alfred Reed; Dixie, as arranged by Morton Gould; William E. Rhoads' Puerto Alegre; and Sousa's Stars and Stripes Forever.

Ned C. Diehl is assistant conductor.

art honors

Harold Altman, graphic artist and associate professor of art, has been honored in several ways recently. He is one of the winners of 18 grants of \$2,500 presented by the National Institute of Arts and Letters at ceremonies of the National Institute and the American Academy of Arts and Letters May 22. The citation said in part, "Harold Altman . . . has already received more than 50 awards for his work and has had 35 one-man shows."

An etching by Altman received a purchase award at the 31st National Graphic Arts Drawing Exhibition at the Wichita Art Association galleries for the work titled, "Park Conversa-

tion." Three other prints were selected for the exhibit also.

Altman was one of four American printmakers represented in an exhibition at the Galerie an Riga, Switzerland, in May.

recordings

Two long-play records, in either stereo or mono, featuring Denis Stevens, distinguished visiting professor of music, and his choral ensemble, The Ambrosian Singers, have been released in Europe and will be available soon in this country.

One record is the first recording ever made of a set of Italian part-songs composed by Beethoven when he was studying in Vienna with Salieri and was Kapellmeister to the Imperial Court. On the same record are humorous canons or catches by Beethoven and jotted down in letters to some of his friends.

The second recording is also a "first." It contains a masterpiece of Tudor music, the Mass "Tecum Principium" by Robert Fayrfax of the Chapel Royal, and his motet, "Eterne Laudis Liliun," written for Elizabeth of York.

CALENDAR

Friday, May 31

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Carl R. Miller, director, U.S.D.A. Sedimentation Laboratory, Oxford, Miss., on "Planning and Design in Channel Rectification and Control."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. E. L. J. Potts, University of Durham, on "Rock Mechanics."

Sunday, June 2

University Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, professor of humanities and religious studies, on "Honest To God."

Penn State Blue Band concert, directed by James Dunlop, 3 p.m., Pattee Library steps; Schwab Auditorium in case of rain.

Monday, June 3

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. M. Nelson McGeary, assistant to the president, on "Some Aspects of the Penn State Self-Evaluation Program."

Polymer Science Seminar, 4 p.m., Room 210 Hammond. Walter Jaunzemis, on "Finite Linear Viscoelastic Theory."

Tuesday, June 4

University Senate meets, 3:55 p.m., Room 121 Sparks.

Wednesday, June 5

Spring Term classes end, 9:55 p.m.

Thursday, June 6

Chemistry Colloquium, 12:30 p.m., Room 302 Whitmore. Dr. W. H. Adams.

Student Survey

(Ninth of a series)

Students' attitudes towards the faculty, as indicated in the Student Attitude Survey made last year, may be categorized in four general groupings: general items pertaining to the entire faculty, items dealing with specific characteristics of individuals but of the faculty in general, items on specific qualities of the student's own professors, and an overall estimation of the main shortcomings of the faculty.

	Per cent Agreement
1. In general, the faculty at Penn State is doing an excellent job.	62
2. I feel that the Penn State faculty is underpaid.	71
3. The quality of the Penn State faculty is on a par with that of other major universities.	74
1. There was some tendency for agreement to increase with an increase in Grade Point Average but not in a clear-cut way, and agreement was 52% or greater in all groupings. Variations by College, however, ranged from 18% for Mineral Industries to 69% for Chemistry and Physics.	
2. In general, the GPA middle groupings 3, 4, and 5) ranged around 75% agreement, but GPA-6 (average 3.5-4.0) gave 90% agreement and GPA-1 (lowest) gave only 52% agreement. In other variables, the agreement was near the Total Response. By College, the range of agreement was from 66% (Business Administration) to 83% (Physical Education).	
3. Again, the middle GPA groups were in general agreement with Total Response but GPA-1 indicated 91% agreement, GPA-6 indicated 67% agreement.	

Summary

In this group of generalized items about the faculty as a whole, there was strong agreement that the faculty is underpaid and yet is on a par qualitatively with that of other major universities.

SPECIFICS

Students were asked about four specific characteristics of the members of the faculty.

	Per cent Agreement
1. The typical attitude of a Penn State professor is that the students are mature, reasonable individuals.	66
5. The faculty provides much encouragement for students to delve into a subject independently.	41
6. Most of the faculty maintain a fair grading system.	77
7. Too many Penn State teachers lack respect for religious values.	26

Variables:

- Across all variables, a majority of students expressed agreement with the statement. Most of the GPA groups were near Total Response in their agreement but again GPA-1 (74%) and GPA-6 (53%) diverged. Students of four colleges—Physical Education, Mineral Industries, DOC, and Liberal Arts—expressed 56-57% agreement; Agriculture (77%) and Chemistry-Physics (74%) were high.
- Only the GPA-1 group (52% agreement) varied greatly from Total Response. Liberal Arts (28%) was low and Agriculture (48%) was high.
- The lower the GPA grouping, the lower the agreement. GPA-1 group expressed 61% agreement, GPA-6 had 86%. By Colleges, DOC (66%) was lowest and Chemistry-Physics highest (93%).
- There was relatively little variation from Total Response. Among Colleges, 17% of Chemistry-Physics but 44% of Physical Education students agreed.

Summary

In these four specific characteristics of the faculty as a whole, which may nevertheless reflect largely the attitudes about the faculty members the student had contact with, the attitudes are rather definite on three of the four points. Fewer than half of the respondents felt that the faculty encourages independent work on the part of the student.

However, the student thinks the faculty thinks the students are mature, reasonable individuals; the faculty maintains a fair grading system; and apparently the professors do not lack respect for religious values.

HIS OWN PROFESSORS

Question 8

"Most of the professors that I have had have been intellectually stimulating."

Total—strongly agree, 3%; agree, 42%; disagree, 50%; strongly disagree, 5%. Variables—by the variable "year," variation in agreement ranged from freshman 53% to senior 39%. By college, variation ranged from DOC, 40%, to Agriculture, 53%.

Question 9

"In most of the courses that I have had, the instructor or professor has displayed enthusiasm for teaching."

Total—strongly agree, 5%; agree, 54%; disagree, 37%; strongly disagree, 4%. Variables—64% of freshmen, 55% of seniors agreed. Of DOC students only 48% agreed; of Physical Education, 84%.

Summary

There was not a clear-cut agreement or disagreement on these two subjects pertaining to the student's own professors. Only 45% think that most of their professors have been stimulating; 59% think the professor had displayed enthusiasm in most of the courses attended. The emphasis may be on the word most.

COMPLAINTS

Nine complaints commonly expressed about faculty members were listed and the student asked to rate these "most important shortcomings" of most Penn State faculty members, as A, B, and C. The table indicates the percentages each complaint received in the "A" ranking, and so forth.

	Per cent Response		
	A	B	C
10. Do not require enough from students.	4	2	4
11. Do not take enough interest in teaching.	10	16	14
12. Are of low quality compared to other major universities.	3	2	4
13. May be good in their fields but have difficulty teaching courses.	37	20	16
14. Allow too much cheating.	2	4	5
15. Do not treat students as mature individuals.	3	8	7
16. Place too much emphasis on grades.	19	20	18
17. Not always qualified for the job.	7	13	13
18. Do not give students enough individual help.	15	15	19

Total—The outstanding complaint the students have is "difficulty teaching courses" and interim choices are "emphasis on grades" and "not enough individual help." "Difficulty teaching courses" received votes for first, second, or third choice from 73% of the students, the other two complaints receiving 57% and 49% respectively. A good fourth choice (total 40%) was "not enough interest in teaching."

Variables—"Difficulty in teaching" was ranked first by all GPA groups, by all four classes, and by all but Physical Education students among the Colleges. Phys. Ed. students ranked "emphasis on grades" first choice and "difficulty in teaching" second choice.

The three choices rated highest by Total Response were also choices across all the variables, although not necessarily in the same order, except that Chemistry and Physics students rated "interest in teaching" as second choice and Business Administration students placed the same complaint third.

Summary

Of the complaints listed, there is little doubt that "difficulty in teaching" was the most common shortcoming students associated with the faculty. The per cent selecting this complaint as first choice ranged from 28% for DOC students to 44% for Engineering.

"Emphasis on grades" and "individual help" also received considerable attention. It may be of interest to note that when students were asked, in a previous section of the survey, opinions regarding certain aspects of their courses, they placed as second in importance (out of ten criteria for judgment), "There has been too much emphasis on grades."

Tennis

The Penn State Tennis Club, which makes use of the varsity courts, will open officially June 1 and close about Sept. 15.

Single memberships for faculty and staff members are available, as are husband-wife memberships, family, and junior memberships, for either the season or a month.

Lockers and laundry service for men are included.

Membership fees are payable at the main ticket office in Recreation Building.

Construction

Sketch plans for the Academic Services Building to be located east of Wagner Building on Curtin Road have been approved by the Board of Trustees.

The building will be of red brick and cast stone trim and will have four floors. Funds to construct the building have been requested of the G.S.A.

Gordon fund

Friends of Norman W. Gordon, assistant professor of physical education and former assistant track coach who was killed in an automobile accident recently, have initiated a memorial fund to aid his widow and eight children.

Former Penn State and Olympic track stars Horace Ashenfelter and Curtis Stone are co-chairmen of the Fund Committee. Contributions, to aid both in immediate and long-range expenses, are being accepted in the name, Norman W. Gordon Memorial Fund, at the Peoples National Bank of State College.

Vending machines

A new policy regarding vending machines in campus buildings has been announced by S. H. Campbell, vice president for business. The following will apply, effective Sept. 1, 1963, to all colleges, divisions, departments and student organizations on the University Park campus.

1. The University Vending Service will operate vending machines to dispense food items, cigarettes, candy, gum, hot and cold drinks, ice cream, and related food items.

2. Applications for service listed above and questions concerning vending operations can be addressed to the Department of Housing and Food Services, Room 7, Food Stores Building, UN 5-5423.

3. Current agreements with non-University vending services should not be renewed.

4. Payment of commissions and location fees will not be authorized beyond existing contracts.

Census data available on tape

Magnetic tapes, stored with information about the 1960 Census, have been acquired by the University Library, necessitating that library personnel develop new skills in information retrieval.

The seven reels of magnetic tape are suitable for input to electric computers of the type now on the campus.

Population characteristics of each of approximately 180,000 persons, comprising a one-tenth of one per cent sample of the population of the United States are stored on these tapes. Substantially all characteristics of the persons as enumerated in the 25 per cent sample portion of the decennial population Census of 1960, will be found recorded. The Population Council provided funds which reduced about two-thirds the cost of the tapes to the Library.

Research workers and students will be able by use of these tapes, comprising a one-in-a-thousand population census sample, to prepare additional analytical tabulations of the population characteristics of the Nation. Names of persons and certain detailed items on place of residence and some other characteristics are not revealed, so that the confidential nature of the Census—so prescribed by law—remains intact.

In addition to general statistics, the taped record also includes selected characteristics of the household, family, and sub-family (if any) of which the person is a member. The record also contains a few of the characteristics of an "associated person," that

is, the spouse of a married adult, or the father or mother of a child.

Selected characteristics of the housing unit in which the person lives are in the tape. The record for the head of the household is followed by the records for the other members of the household. Thus, it will be possible to prepare tabulations in which the characteristics of other persons in the family, with characteristics of the family as a whole or the housing unit in which the family lives.

The most detailed area identification shown on the records are the four geographic regions of the United States, and the size of urban place, size of urbanized area, and size of SMSA (Standard Metropolitan Statistical Area) of residence. Information on place of residence in 1955 and one place of work is recorded in a similar consolidated form.

Sample characteristics included in the taped record are: Region of residence, size of place, housing unit number, age quarter, sex and marriage quarter (Jan. to March, April to June, etc.), year of first marriage, marital status and whether married more than once, family number, race, nativity, parents' country of origin, mother tongue, highest grade of school completed, detailed occupation, weeks worked in 1959, wage and salary income 1959, number of rooms and persons per room, toilet facilities, automobiles, rent-income ratio, children, characteristics of mother, etc.

Altogether, the record includes some 92 general headings of characteristics with about 240 subheadings.

ALUMNI FUND

Total contributions to the 1963 Alumni Fund add to \$230,121.58 from 7,727 contributors as of May 27, surpassing last year's total at the same point by about \$11,000.

FACULTY LUNCHEON CLUB

The concluding meeting of the Faculty Luncheon Club will feature Dr. M. Nelson McGeary, assistant to the president, speaking on "Some Aspects of the Penn State Self-Evaluation Program." The Club meets Monday, in HUB dining room "A," at 12:30 p.m.

YORK CAMPUS

Approval has been given by the Board of Trustees to the York Campus Advisory Board to prepare plans and other materials for the proposed expansion of the facilities. A fund-raising campaign has been planned for an addition to the present building to make possible an increase in enrollment to 400 full-time students. Present enrollment is 130.

HONORED

The student chapter of the American Society of Civil Engineers has been cited by the Society for "excellence in the effective and meritorious conduct of affairs," one of three chapters in the Middle Atlantic Region to receive the high commendation.

LATSHAW PUPPETS

The George Latshaw Puppets, which have performed on campus, represented the U. S. in the International Puppet Festival held in the Prince of Wales Theatre, Colwyn Bay, Wales, last week. Latshaw has served on the theatre arts faculty several times.

SCHOLARSHIPS

The Alcoa Foundation has provided a grant to make possible five scholarships, each amounting to \$625 per year, three of which will be awarded to engineering students and the other two to ceramics and metallurgy majors.

Items—

(Continued from page five)

THOMPSON, S. E., hotel and institution administration, "Food Presentation" and "How Important Are You?" before the Delaware School Food Service Association. — "The U in Success" before the Allentown, Pa., Alumni Association.

VAIRO, J. D., Journalism "Hospital Public Relations," at the annual meeting of the Northwest Regional Hospital Association of Pennsylvania at Erie.

WARTIK, THOMAS, chemistry, "Organoboronates and Organoaluminum Compounds" for a seminar in chemistry at the University of Illinois.

WHEFFRY, R. H., commerce and management, "The Insurance Industry from an Educator's Viewpoint" at the Tri-State Mutual Agents 18th annual convention in Harrisburg.

WILLIAMSON, M. A., Engineering, "Certification of Engineering Technicians" before the Engineers' Club of Philadelphia.

WILLARD, MARY L., chemistry, "Applications of Modern Chemistry to Criminal Investigations" at Painesville, Wooster, and Cleveland, Ohio, Erie, Pa., Olean, N. Y., and Marietta, Ohio, sponsored by the Division of Analytical Chemistry, American Chemical Society.

Articles and Papers

ASQUITH, DEAN and LEWIS, F. H., Allentown, "Spraying Apples by Helicopter" in the April issue of Pennsylvania Fruit News.

BIRKENMAYER, S. S., Slavic languages, "Patetich Drills in the Teaching of Russian: Theory and Practice," in the Spring issue of The Slavic and East European Journal.

BARTOO, R. A., and GAMBLE, H. B., forestry, "An Economic Comparison of Timber and Wildlife Values on Farm Land," in the May issue of the Journal of Farm Economics.

BROWN, E. J., rural sociology, with BUBLE, B. L., "Role Consensus and Satisfaction of

Extension Advisory Committee Members," in the March issue of Rural Sociology.

BEALER, R. C., rural sociology, with WILLITS, F. K., "The Utility of Residence for Differentiating Social Conservation in Rural Youth," in the March issue of Rural Sociology.

CHENG, T., zoology, "Insect Control in Mainland China," in the April issue of Science, journal of the American Association for the Advancement of Science.

FAGAN, E. R., secondary education, "Garuda and the Eagle," in the May issue of United Asia.

FROST, S. W., zoology emeritus, "Winter Insect Light-Trapping at the Archbold Biological Station, Florida," in the December issue of The Florida Entomologist.

GOLATZ, H. J., industrial relations, and LEWIS, A. O., Jr., English, "Steelworker in Academe," in the April issue of the Journal of General Education.

HOOGENBOOM, ARI, history, "Sportsmen and Reformers: Civil Service Reform and Public Morality" in Chapter IV of "The Gilded Age: A Reappraisal" published by the Syracuse University Press, 1963.

— "Historians and the Cause of the Civil War," before the annual meeting of the Historical Society of York County.

HOSFTLER, J. A., sociology and anthropology, Ogontz Campus, "Concepts of Disease and Medical Behavior in Amish Society," before the medical staff of The Johns Hopkins Hospital.

JORDAN, JOSEPH, chemistry, in the Handbook of Analytical Chemistry, three sections: "Amperometric Titrations," with JUDITH CLAUSEN; "Kinetics of Heterogeneous Electron Transfer in Electrode Processes," with N. R. Stalica; and "Thermometric Titrations" with G. J. EWING.

JOY, F. A., engineering research, "Standardization of Water Vapor Transfer Measurement by the Dish Method," at the 1963 International Symposium on Humidity and Moisture at Washington, D. C.

KAPLANOFF, LORRAINE T., Slavic languages, "The Teaching of Technical Russian," in the Spring edition of The Slavic and East European Journal.

KLAUS, E. E., TEWKSBURY, E. J., and FENSKE, M. R., Petroleum Refining Laboratory, "High Temperature Hydraulic Fluids from Petroleum," at the Symposium on the Behavior of Petroleum Products in Space, 144th National Meeting of the American Chemical Society at Los Angeles.

KLAUS, E. E., Petroleum Refining Laboratory, "A Study of the Critical Properties of Gyro-Bearing Lubricants," at the U. S. Air Force Aerospace Fluids and Lubricants Conference at San Antonio.

KUSPIR, D. B., philosophy, "Whitehead's Cosmology" in Archiv fuer Philosophie, 12:1-2.

MALLETTE, M. F., agricultural and biological chemistry, "Validity of the Concept of Energy of Maintenance," in the Jan. 21 issue of The New York Academy of Sciences.

MC CARL, R. L. and TRIEBOLD, H. O., agricultural and biological chemistry, "The Biosynthesis of Phosphatides in Several Tissue-Culture Cell Lines," in Experimental Cell Research 29.

MOURANT, J. A., philosophy, "The Augustinian Argument for the Existence of God," in the current issue of Philosophical Studies, published at Maynooth, Ireland.

MURR, L. E., engineering mechanics, "Optical Microscope Investigation of Plant Cell Destruction in an Electrostatic Field," before meetings of the Pennsylvania Academy of Science at Stroudsburg.

MURRAY, R. K., history, "The Missing Dimension in American Higher Education," in the publication of Phi Delta Kappa. "New Dimensions for Educational Progress."

SMITH, W. S., theatre arts, "George Tyrell and the Modernists," in the April 17 issue of The Christian Century.

WEIDHAAS, E. R., engineering graphics, "Engineering Graphics Education at Penn State," in the May issue of Engineering Graphics.

WILLOWER, D. J., educational services, a chapter in the new book, "Educational Research: New Perspectives," edited by JACK CULBERTSON and STEPHEN P. HENCLEY.

faculty BULLETIN

Vol. 50, No. 44 May 31, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Alumni college

Twelve courses, six of them new this year, will be featured in the 1963 Alumni College this summer beginning with "The Mass Media" and "Latin America and the United States," July 15 to 19.

Faculty members who will staff the program include Dr. Roy C. Buck, associate director for social sciences of the Center for Continuing Liberal Education; William L. Dulaney, C.C. L.E. specialist in the mass media; Dr. Henry A. Finch, professor of philosophy and chairman of the humanities staff; Dr. Maxwell H. Goldberg, C.C. L.E. associate director for humanities; Dr. Jules Heller, dean of the College of Arts and Architecture; Dr. Thorsten V. Kalijarvi, professor of international and public affairs of C.C. L.E.; Hayden C. Oliver, assistant professor of music; and George S. Zoretich, associate head of the department of art.

The series of courses, meeting each morning for either one or two weeks, is conducted by C.C.L.E. and the Penn State Alumni Association.

The courses will enroll non-alumni as well as alumni and many persons are expected to combine a leisurely vacation with the studies.

Other courses are: Problems of Urban Living; Introduction to Contemporary Philosophy; Art Workshop; Latin America and the United States; Problems; Keys to Modern Art; World Politics in Action; The Responsible Man; and Understanding Music.

2,800 to Receive Degrees Sunday

Two faculty

Members will

Be honored

Approximately 2,800 degrees will be granted at Commencement Exercises Sunday in ceremonies at Beaver Stadium at 10:30 a.m.

In case of inclement weather, a decision will be made early Sunday and announced via local radio stations as to whether the Exercises will be held in Recreation Building. If they are, three ceremonies will be held, attended as follows:

10:30 a.m.—associate degree candidates, all degrees in Engineering and Mineral Industries.

1:30 p.m.—Agriculture, Education, Home Economics, Physical Education and Athletics.

3:30 p.m.—Arts and Architecture, Business Administration, Chemistry and Physics, and The Liberal Arts.

Park Ave. and University Drive have been specially designated one-way routes from 9:30 to 10:30 a.m. in the direction of Beaver Stadium to handle the volume of traffic expected. Upwards of 5,000 cars will be in the vicinity of the Stadium, W. C. Pelton, director of security, estimates.

"We would urge all those who plan to attend the ceremony to get an early start," he says. "Last year, some people experienced difficulties in getting a parking space and arriving in the Stadium in good time because they delayed their start and were caught in the last-minute jam. Since many parents and friends of graduates are coming from out of town that morning, it is to be expected that there will be many cars on the roads leading to the Stadium just before the Exercises begin."

Members of the faculty who expect to be part of the processional should park their cars in the area next to the Stadium if they have obtained a special yellow parking sticker and their approach to the parking area should be from either Park Ave. or Incinerator Road. They should plan to meet at the north locker room under the West Stands at 10:10 a.m. in academic dress.

All others will park in areas just east of University Drive, those coming from Park Ave. in the area north of Curtin Road and those coming from University Drive in the area south of Curtin Road.

Curtin Road will be closed to all but pedestrian traffic.

If the ceremonies are held in Rec-

reation Building, faculty members having special yellow parking stickers will be directed to parking space on the running track at old Beaver Field, approached only from Curtin Road. Those in the processional will meet 15 minutes before the respective ceremonies begin under the south balcony of Recreation Building.

Those attending the first two ceremonies are asked to remove their cars immediately following the ceremonies to make the spaces available to those following.

About 2,000 men and women will receive bachelor's degrees at the ceremonies, 220 will be granted master's degrees, 53 doctor's, and 561 associate degrees.

Baccalaureate candidates by Colleges are: Agriculture, 209; Arts and Architecture, 45; Business Administration, 268; Chemistry and Physics, 141; Education, 484; Engineering, 293; Home Economics, 94; Liberal Arts, 330; Mineral Industries, 95; Physical Education, 44.

Special attention will be given to honors candidates and also to two faculty members to be cited. Winners of the Superior Teaching Award and the Louis H. Bell Memorial Award will be announced. The Bell award honors the faculty member who during the year submitted to the University Press the book manuscript which "best exemplifies the highest standards of scholarship and creativity in its field."

Commissions

One hundred and thirty-one seniors will receive commissions in the U. S. Army, Air Force, Navy, and Marine Corps Reserves at exercises to be held at 8:30 a.m., Sunday, in Schwab Auditorium.

Dr. J. R. Rackley, vice president for resident instruction, will be the speaker and the Rev. Quentin L. Schaut, rector of the Penn State Catholic Center, will give the invocation and benediction.

The oaths will be administered by Col. Ellis B. Richie, U. S. Army; Col. Robert E. Smith, Jr., Navy and Marine Corps; and Col. William J. Cain, Jr., Air Force.

To be commissioned are 78 second lieutenants in the Army Reserve; 18 second lieutenants in the Air Force Reserve; 11 ensigns in the Naval Reserve; and 6 second lieutenants in the Marine Corps Reserve. Thirteen will receive regular commissions as ensigns in the Navy and four will receive regular commissions as Marine Corps ensigns.



Calvin G. Reen, left and A. S. Marburger

Reen Wins Advisers Award

Calvin G. Reen, a member of the University faculty since 1942 and now professor of civil engineering, was awarded the second annual Adviser's Award of the College of Engineering at Honors Day program May 28.

The Award, which consists of a certificate and a check for \$200, has been made possible by The Pennsylvania State University Engineering Association "to recognize members of the faculty who perform outstanding service as an adviser to undergraduate students." The award was won by Clifford B. Holt, Jr., professor of electrical engineering, last year.

Ausmus S. Marburger, vice president and general manager of the Belleville plant of the New Holland Machine Co. and vice president of the Association, made the presentation to Mr. Reen.

At the Ceremonies, announcements were made also of the many student scholarships and awards and of faculty honors and grants.

Reen, a graduate of Gettysburg College with a master's degree from the University of Michigan, came to Penn State in 1942 as supervisor of extension courses in civil engineering, engineering mechanics, and architecture under the E.S.M.W.T. programs. He had previously taught at Gettysburg College.

TELEPHONE

Although a check list of faculty and staff members has been sent to the several departments of the University and returned to the telephone service offices, additions and corrections can still be made to the information which will be printed in the directory in the fall.

An additional check list of employees whose names are to appear in the directory will be sent to departments later in the summer.

ALUMNI FUND

Contributions to the Alumni Fund as of May 31 totalled \$226,514.58, from 8,011 contributors.

GARDEN DAYS

The Penn State Garden Days program will be held June 25, 26, and 27. A flower show will be held the latter two days on the theme, "Penn's Woods," at the greenhouses at the rear of Tyson Building.

CALENDAR

June 9—Spring Term Commencement Exercises, 10:30 a.m., Beaver Stadium; in case of rain, ceremonies at 10:30 a.m., 1:30 and 3:30 p.m., Recreation Building.

June 11-13—Pennsylvania Future Homemakers of America meeting, 1200 in attendance.

June 12-14—Future Farmers of America Week, 1,500 in attendance.

June 13-16—Alumni Class Reunions, 1,200 in attendance.

Book exhibit

A cooperative, publishing-industry collection of some 1,600 new books covering grades from kindergarten through high school is represented in an exhibit now on display at the Reading Center, Room 201, Chambers Building, open weekdays from 8 a.m. to 5 p.m.

More than 50 publishers have joined in the exhibit, provided in an organized, graded, and catalogued manner so that teachers and librarians across the country can do a thorough and efficient job of book-selection in a minimum of time.

Every title in the collection is curriculum-oriented and related, under some 50 subject classifications and sub-classifications.

Russian course

Dr. Thomas F. Magner, head of the department of Slavic languages, and Joseph Paternost, instructor, leave New York today (Friday) for Moscow, U.S.S.R., for a ten-week program related to language instruction along with 25 high school and university teachers of Russian.

Dr. Magner is going as observer of the exchange program under which a similar group of Soviet teachers of English are coming to this country to study at Cornell University. Paternost is one of the teacher-participants.

The ten-weeks program will involve an intensive study of Russian pedagogy and applied linguistics and is the first of its kind ever attempted. Dr. Magner headed the committee which selected the 25 participants from among 110 teachers of Russian who made application for the course. The exchange is made possible by the inter-governmental Exchanges Agreements signed by the U. S. and Russia in 1962.

The teachers spent yesterday in New York taking a language test and on their return trip August 18 will stop in Copenhagen and take another test to indicate the changes effected by the program.

Press list of books impressive

THE Pennsylvania State University Press catalogue for the Fall season contains another impressive list of scholarly books and other publications, including such diverse titles as "T'ien-Kung K'wai Wu: Chinese Technology in the 17th Century" and "The Religious Speeches of Bernard Shaw."

The list is a further bit of evidence of the developing success of the Press in a highly competitive field, one in which Penn State is a comparative newcomer. Of the 49 regular members of the Association of American University Presses, for example, only two were established later than Penn State's, which dates from 1956 and has been an AAUP member only since 1959.

In spite of such youth, the Press has shown a number of other evidences of being accepted, including the fact that it has top flight domestic and foreign sales representatives: W. S. Hall and Co., of Amsterdam, for Great Britain and Europe sales; Fetter and Simons, Inc., New York, for Africa and the Far East sales; Louis Freedman and Lee R. Collins in the Western United States; and other equally well-established organizations for other parts of the country.

The result of these associations is that Penn State's name continues to appear in many publications all over the world. For example, an advance review of Gordon R. Smith's "A Classified Shakespeare Bibliography" appeared in a Japanese literature journal; other Press books have been extensively reviewed in Italian, French, Brazilian, Indian, German, English, and South African periodicals.

The acceptance of the works themselves is partially indicated by critical reviews, which obviously vary from one book to another but sometimes are very laudatory. A book published last year, as an example, drew these comments:

"A work of merit and great importance"—*Saturday Review*.

"Of primary importance for social, intellectual, political and diplomatic history"—*New York Times*.

"Has an epic quality that the Greeks would have relished"—*The Economist*.

"The most important book of the year"—*Chemical and Engineering News*.

"A major contribution"—*American Historical Review*.

The Association to which the Press belongs is the result of informal get-togethers in the early 'twenties of a group of college and university press directors, most of them in the Ivy League schools, during annual meetings of the National Association of

Book Publishers. By 1937, when twelve presses were represented regularly in the meetings, a formal organization was proposed and developed. Subsequent to the close of World War II, growth of the Association became more rapid but always with rigid and high standards for membership. It is a distinct honor to be offered membership with such outstanding university presses as those of Harvard, Yale, Princeton, California, Chicago, New York, and Stanford. Penn State now serves on the Arrangements Committee of the Association along with Harvard, Princeton, and Cambridge.

200 MANUSCRIPTS

T. Rowland Slingluff, director of the Press, points out that the Press now receives more than 200 manuscripts yearly. From those submitted during the past year, the following are listed as new publications for the fall (in addition to the two cited already):

"The Self in Modern Literature," Charles I. Glicksburg, professor of English, Brooklyn College.

"Field: A Process for Teaching Literature," Edward R. Fagan, associate professor of education, Penn State.

"L. P. Hartley," Peter Bien, instructor in English, Dartmouth College, which, through an arrangement with the Press, will be simultaneously published in England by Chatto and Windus Ltd.

"Concordance to the Poetry of Wallace Stevens," Thomas F. Walsh, associate professor of English, Georgetown University.

This year a "Penn State Music Series" has been initiated, under the general editorship of Denis Stevens, distinguished visiting professor of music, and it will consist of important, hitherto unavailable musical scores, edited and annotated by outstanding musicologists. The first manuscripts announced are:

"Polyphonia Sacra: A Continental Miscellany of the 15th Century," by Charles van den Borren.

Cantata "Look Down, Harmonious Saint," by Handel.

Compositions for organ and harpsichord by Thomas Roseingrave.

Dialogues for two voices and continuo, by William and Henry Lawes, edited by Roy Jesson.

PERSONNEL MATTERS

Dr. Robert F. Hutton, professor of farm management, has been granted a leave from July 1 to June 30, 1964, to serve as a member of the Pioneering Research Branch of the Economic Research Service of the U. S. Dept. of Agriculture. He will explore the feasibility of developing a mathematical model of the firms in a vertical cross-section of an agricultural industry.

Dr. Laurence H. Lattman, associate professor of geomorphology, has been granted a leave from January through May, 1964, to study fracture patterns in rocks in the Mojave Desert in California.

Robert J. Eberhart, instructor in veterinary science, will work for his doctorate in zoology at the University while on leave from October through June, 1964.

Programming

Dr. Robert A. Campbell, assistant professor of engineering graphics, is one of the principal investigators in a research project on computer-based instructional techniques for which the Cooperative Research Branch of the U. S. Office of Education has provided a grant of \$103,824.

The research will be done at the Northern Westchester Technology and Education Center at Yorktown Hts., N. Y. and will involve teachers and curriculum specialists, I.B.M. personnel, and Dr. Richard Wing, Board of Cooperative Educational Services of Northern Westchester County.

A talk on library materials, designed to aid graduate students, has been prepared by the Reference staff of Pattee Library Tuesday, June 25, from 7:15 to 9:00 p.m. in Room 5, Pattee. A tour of the Library will follow.

Faculty members are asked to call the tour to the attention of their graduate students, who should sign beforehand at the Reference or Information desk so that enough guides may be provided.

* * *

During the Summer Term, Children's Art Classes of the Art Education Department will meet Monday, Wednesday, and Friday each week, beginning June 24.

An arts and crafts program will be planned for the younger children; those of secondary school age will concentrate on one or two media such as painting, graphics, ceramics, or sculpture.

Those on the waiting list will be notified soon; there are openings only in the teenage groups. Boys and girls 12 years of age or older should make known their interest in the classes by calling the Art Education Department, UN 5-5541.

Student Attitude Survey

(Tenth in a Series)

ON the subject of Advising and Counseling, students who last year participated in the Student Attitude Survey were asked to give their impressions on the following:

"I personally feel that a faculty advisor should:

(a) concern himself only with helping the student plan academic work;

(b) concern himself equally with helping students with academic planning and personal problems;

(c) help a student with academic planning but should put more emphasis on assisting him with personal problems."

Total—(a) 30%; (b) 64%; (c) 6%.

Variables—The range of selection of choice (b) by GPA groupings was from 70% for GPA-1 to 54% for GPA-6. Students in Physical Education, Home Economics, and Agriculture emphasized (b) at the expense of (a), 92% of Phys. Ed. majors selecting (b). On the other hand, Mineral Industries students placed more than average emphasis on (a), 34% making this choice. Other variables studied showed no great differences from the Total Response.

"My faculty advisor has been a great deal of help to me."

Total—strongly agree, 13%; agree, 31%; disagree, 36%; strongly disagree, 20%. Total agreement, 44%.

Variables—this item elicited one of the more unusual responses in that the percentage selecting the extremes of "strongly agree" and "strongly disagree" were unusually high. Evidently feelings are strong on the subject. Students in GPA-1 group

indicated only 35% agreement; those in GPA-6 group, 48%. Variations by Colleges were more pronounced—Physical Education (75%), Agriculture (62%), and Home Economics (56%) were much above average. Least agreement was indicated by Business Administration (35%) and Engineering (37%).

"The counseling I received when I entered Penn State was extremely helpful to me."

Total—strongly agree, 6%; agree, 38%; disagree, 42%; strongly disagree, 19%. Total agreement, 44%. Again the "strongly disagree" response was unusually high.

Variables—More than half (56%) of GPA-1 students (those with averages 0 to 1.4) indicated agreement, but only 32% of GPA-6 students did so; also 26% of GPA-6 responded "strongly disagree." The range of percent of agreement by College was from 31% for Engineering to 52% for DOC. Liberal Arts students had the high for "strongly disagree," 25%.

DIVISION OF COUNSELING

"I have had occasion to use the services of the Division of Counseling."

"I felt that the services of DOC helped me a great deal."

These two items were combined in the analysis since only those who answered "yes" for the first item could answer the second.

Total—to the first question, 34% answered "yes." Of these, 18% strongly agreed to the second question, 43% agreed, 27% disagreed, and 12% strongly disagreed.

Variables—the relationships between GPA-grouping and affirmative answers to the first

question and total agreement/ strongly agree and agree combined) to the second question are as follows:

GPA	Per cent	Per cent
	Used Services	Services Helped
1. (0-1.4)	61	69
2. (1.5-1.9)	48	61
3. (2.0-2.4)	40	59
4. (2.5-2.9)	24	61
5. (3.0-3.4)	16	64
6. (3.5-4.0)	5	0

(Note that the GPA-6 group which answered "yes" to the first question is very small.)

In answering the second question, 70% of the freshman agreed that the services helped, but only 50% of the seniors thought so. Of the DOC students, 84% agreed that the services had been helpful to them. By college, the range of students having used the services was from 20% (Chemistry and Physics) to 48% (Business Administration). On the second question, excluding DOC students, the range was from 42% (Home Economics) to 67% (Mineral Industries). Of the men students, 39% said they had used the services and of these, 64% agreed that they helped; of women, only 21% had used them, and of these, 45% agreed they were aided.

SUMMARY

Nearly two-thirds of the students said that an advisor should help with personal as well as academic problems, but fewer than half of the respondents felt that their faculty advisor "had been a great deal of help."

About one-third of the more than a thousand students had used DOC services and of these, three out of five said the division was helpful.

faculty BULLETIN

Vol. 50, No. 45 June 7, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Mason winner



Mason

Dr. Will E. Mason, professor of economics, received the Louis H. Bell Memorial Award for his book, "Clarification of the Monetary Standard," at Commencement Exercises last weekend.

The award, consisting of a certificate and a check for \$1,000, was established four years ago to encourage the production of scholarly books by members of the University faculty and is awarded to the faculty member who "submits to the Pennsylvania State University Press the book manuscript which best exemplifies the highest standards of scholarship and creativity in its field, without limitation as to the breadth or narrowness of the subject matter and without regard to its popular appeal."

Dr. Mason's book is an attempt to clarify the confusion which has developed in the terminology of monetary theory and practice in the last century. A distinction is shown between monetary standards, policies, and objectives. The book was published last month.

A member of the faculty since 1956, Dr. Mason has taught at Washington and Jefferson College, the University of Buffalo, Princeton, the University of Washington, Multnomah College, and in an Oregon high school. He

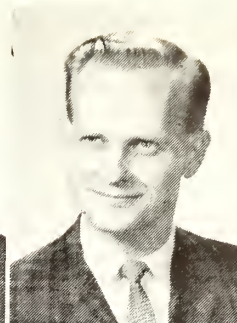
(Continued on page six)



Larson



Noll



Hartman



Sabeau

New Deans Named By Trustees

Dr. Russell E. Larson has been named dean of the College of Agriculture and acting director of the Agricultural and Home Economics Extension Service. He succeeds Dr. Lyman E. Jackson, who retires July 1 as dean emeritus after serving since 1946 in the position.

In other actions, the Trustees named Dr. Clarence I. Noll, now associate dean of Chemistry and Physics, as acting dean of the new College of Sciences; named Dr. Howard Hartman as associate dean of the College of Engineering; and approved Samuel C. Sabeau as assistant dean of the College of Arts and Architecture.

Dr. Larson was appointed to the faculty in 1944 as assistant professor of plant breeding, was chosen head of the department of horticulture in 1952, and in 1961 became chairman of the Division of Plant Sciences and Industry in the College of Agriculture. He was named director of the Extension Service Jan. 1, 1962.

A graduate of the University of Minnesota in 1939, his master of science and doctor of philosophy degrees were granted by Minnesota in 1939 and 1942. He served on the faculty of the University of Rhode Island before coming to Penn State and from 1939 to 1941 was research assistant at Minnesota.

In 1961, the University of Minnesota gave him the Outstanding Achievement Award for his work as a "dedicated teacher, energetic leader, and keen administrator and as an internationally honored research scientist for his work in horticulture, and respected voice in professional societies and governmental agencies."

He was chosen for the Leonard H. Vaughan Award of the American Society for Horticultural Science in 1949 for the best research paper published in the Society's proceedings. In 1955, he was awarded the All-American Bronze Medal of All-America Trials for Pennsweet muskmelon he developed and in 1947 he developed and introduced the Keystone F₁ tomato hybrid.

Dr. Larson is co-author of the book, "Vegetable and Fruit Management,"

(Continued on page four)

Mook honored



Mook

Dr. Maurice A. Mook, professor of anthropology, was presented with the Christian R. and Mary F. Lindback Award for Distinguished Teaching last Sunday at Commencement Exercises. The award of \$1,000 was made available

by the Christian R. and Mary F. Lindback Foundation of Philadelphia.

During his 14 years as a member of the faculty, Dr. Mook has taught an introductory course in anthropology, an elective course which students in many disciplines have scheduled. He has also taught other undergraduate and graduate courses and has been on closed-circuit television instruction for a number of years. For one semester his course was also shown to the public and to other campuses.

A graduate of Allegheny College with a bachelor of arts degree, he received the master's degree from Northwestern University and doctor of philosophy in anthropology from the University of Pennsylvania. He taught history in Pennsylvania high schools before a three-year stint at the University of Pittsburgh. Before coming to Penn State he also taught at Ohio Wesleyan University, Brown, American, and Missouri.

Dr. Mook's research has included studies of an Arizona Indian tribe, archaeological excavations of Indian sites in Illinois and Missouri, field studies of remnant Indian peoples in Delaware, Maryland, Virginia, and North Carolina.

(Continued on page six)

College of Science Approved

ORGANIZATIONAL plans for the new College of Science, approved in principle by the Board of Trustees last January, were approved in detail last weekend, effective July 1.

The College will embrace the departments of botany, biochemistry, biophysics, chemistry, mathematics, microbiology, physics, and zoology.

The reorganization brought about these changes:

a. The College of Chemistry and Physics is discontinued.

b. Department of chemical engineering joins the College of Engineering.

c. Department of mathematics will be transferred from the College of the Liberal Arts.

d. Programs in botany, biochemistry, bacteriology, and zoology will be transferred from the College of Agriculture. Bacteriology will be redesignated department of microbiology.

e. A department of agricultural plant pathology and a department of

agricultural entomology will be established in the College of Agriculture.

The College of Science, along with the existing College of the Liberal Arts and the College of Arts and Architecture established January 1 of this year, will provide programs of liberal education for undergraduates and instruction and research at the graduate level.

"The professional or vocationally-oriented schools and colleges," says Dr. J. R. Rackley, vice-president for resident instruction, "will continue to furnish both undergraduate and graduate programs to meet the needs of students, the society, and the economy."

Education Changes Made

A department of special education and a new department of educational psychology have been established in the College of Education and the department of industrial education will become the department of vocational education and its scope enlarged. All the changes are effective July 1.

The department of special education will be composed of personnel concerned with the programs of the Speech and Hearing Clinic including speech pathology and audiology, the Reading Center, and in the preparation of teachers for the mentally retarded, physically handicapped, mentally gifted, and the socially and emotionally maladjusted.

The new department of educational psychology will be composed of members of the faculty formerly in the departments of psychology and of educational services. Instruction and research in the psychology of teaching and learning processes, the measurement of achievement and intellectual abilities, statistical inference and research design in education, and newer media of education, including programmed instruction, will all be conducted in the new department.

The department of vocational education will embrace preparation of vocational education supervisors and teachers of vocational and trade subjects, secretarial science, and business education in high schools, vocational and trade schools, and technical institutes.

The program in industrial arts education is being transferred to the department of secondary education.

Trustees elected

Samuel F. Hinkle, president of the Hershey Chocolate Company in Hershey, Pa., has been elected to the Board of Trustees by delegates of industrial societies.

He is the only new Trustee elected to the Board to which the following incumbents were re-elected:

By industrial societies: G. Albert Shoemaker, Pittsburgh.

By agricultural societies: J. Collins McSparran, Harrisburg; C. L. Packard, Roaring Spring.

By alumni: J. E. Holtzinger, Altoona; Ben C. Jones, Pine Grove Mills; John L. Romig, Kennett Square.

Library hours

Pattee Library hours from now until the opening of the Fall Term will be as follows:

Saturday, June 15—8 a.m. to noon.

Sunday, June 16—closed

Monday and Tuesday, June 17-18—8 a.m. to 5 p.m.

From June 19, to August 31—Sundays, 2 p.m. to 10 p.m.; Monday through Friday, 7:50 a.m. to 10 p.m. (except closed on July 4); Saturday, 7:50 a.m. to 5 p.m.

From Sept. 1 to Sept. 29—Sunday, closed; Monday through Friday, 8 a.m. to 5 p.m. (Sept. 2, closed); Saturday, 8 a.m. to 12 noon.

Brickwedde named

Dr. Ferdinand C. Brickwedde, dean of the College of Chemistry and Physics, has been named Evan Pugh Research Professor of Physics, effective July 1. The College of Chemistry and Physics will be discontinued July 1 with the organization of the new College of Science. Dean Brickwedde asked that his name be withdrawn from consideration for the position of dean of the new college.

Dr. Brickwedde is widely known for his research at low temperatures and for leadership in establishing new standards of temperature measurement. He is currently serving on several national and international committees for low temperature research. He is serving as a member of the organizing committee for the Ninth International Conference on low temperature physics to be held in Columbus, Ohio, next year. He is editor of a newly-published reference work on "Temperature, Its Measurement and Control in Science and Industry."

ROTC voluntary

A voluntary program of basic R.O.T.C. training will be offered by the University, effective July 1, 1964, as a result of action by the Board of Trustees last weekend.

The action was taken with the understanding that if new legislation is enacted by the Congress pertaining to R.O.T.C., the Board will again review the action taken.

Last October the University Senate voted by 104 to 99 to recommend that R.O.T.C. be placed on a voluntary basis and the Board last January tabled the recommendation pending action by the U. S. Congress on a Department of Defense proposal that Army and Air R.O.T.C. programs be essentially two-year programs for volunteers who have been selected for officer training. So far Congress has not taken action on the proposal.

Languages

The department of Romance languages has been reorganized into three separate departments, effective July 1, because of an increase in enrollment and added emphasis on language instruction.

A new department of classical languages, with Dr. Franklin B. Krauss as head, will offer programs in Hebrew, Latin, and Greek.

Heads of the other two departments—French; and Spanish, Italian, and Portuguese—will be named at a later date.

PERSONNEL MATTERS



Miss Atkinson

Miss Esther A. Atkinson, professor of hotel and institution administration, will retire July 1 with emerita rank. Member of the faculty since 1944, she headed the department of hotel and institution administration from then until

1958.

A graduate of the University of Nebraska, Miss Atkinson received the master of science degree from Kansas State University. She taught at Central and McPherson colleges in Kansas and at Kansas State University and the University of Idaho before coming here.

Active for many years in professional organizations, she served for two years as national secretary of the American Dietetic Association and in its House of Delegates for three years. She is a past president of the Pennsylvania Dietetic Association.



Galbraith

Robert E. Galbraith, who began his service to the University in 1927, will retire July 1 as professor emeritus of English composition.

Galbraith, who will be remembered by many students for his courses in basic composition,

advanced short story, and biographical sketch writing, served in many other ways. He was swimming coach from 1935 to 1945. In 1933 he was named faculty adviser to blind students and in 1942 was appointed adviser on war service, counseling many men students concerning entry into the armed forces. With the end of the war, he helped many veterans find jobs, housing, and aided them in personal family problems.

In recent years he has been faculty adviser to foreign students and Fulbright adviser for both students and faculty.

A graduate of Rutgers University, with a bachelor of literature degree in literature and composition, he was granted the master of arts in American and English literature by Penn State. His career began, after World War I service, with the advertising department of the New York Times

and later as reporter and rewrite man with the United Press. He later taught English at a Monroe, N. Y., school.

Galbraith is the author of "These Our Moderns," and co-authored "The Modern Writer's Art," with T. J. Gates, professor emeritus of English.

* * *

Franklin P. Ferguson will retire July 1 as professor emeritus of agricultural journalism, after 25 years on the faculty and staff, during which he has edited some 335 Agricultural Experiment Station Bulletins as well as many other publications.

After World War I service, Ferguson began his career in agriculture as a farmer, then became a Dairy Herd Improvement Association tester before going to college. He qualified for a bachelor of science degree in agricultural journalism at Iowa State University in 1929, then served as assistant bulletin editor at Iowa State University for a year and for eight years as reporter and field editor for the Journal Stockman in Omaha, Neb. He came then to Penn State.

One of the most significant publications he has edited is "Science for the Farmer," for which during the past 20 years he has written, rewritten, or edited most of the contents.

* * *



Land

Dr. S. Lewis Land, head of the department of industrial education and director of vocational teacher education, will retire July 1 as professor emeritus of industrial education.

A member of the faculty since 1944 and head of the department since that time, Dr. Land came from a position as supervisor of industrial education and industrial teacher training for the New York State Education Department, which he served for seven years.

A graduate of East Tennessee Normal College, he received a bachelor of science degree from Peabody College for Teachers. He received the master of science degree from the University of Wisconsin and the doctor of philosophy from New York University.

Dr. Land's career began in secondary schools in Tennessee. He served as director of mechanic arts at Tennessee Polytechnic Institute; lecturer

in vocational education at the University of Wisconsin; and chief of the Home Study Division and educational director of the National Trade Extension Bureau, and educational director of the National Association of Heating and Air Conditioning Contractors.

He has had a variety of international assignments. Last fall he spent three months in Egypt conducting a manpower survey for the United Arab Republic under the auspices of A.I.D. He served as vocational education consultant in Taiwan with the M.S.A. Mission in 1952 and was in charge of a six-year program in industrial education and home economics in Taiwan under I.C.A. auspices. In 1954, he conducted a survey of the needs for collegiate-level programs in Paraguay for the Foreign Operations Administration. In 1957-58, he was in Italy and Greece on assignment with the European Productivity Agency.

He is the author of several books, including "Trade Associations—Their Services to Education"; "Training for Industry"; and "The Duties, Qualifications and Responsibilities of Directors of Vocational Education."

* * *

Dr. J. L. Shearer, leader of the control systems division in the mechanical engineering department at Massachusetts Institute of Technology, has been appointed the Rockwell Manufacturing Company professor of engineering, effective Aug. 1.

Author of a number of professional papers on fluid power control for military and industrial applications and co-editor and author of several chapters of the book, "Fluid Power Control," Dr. Shearer served as guest researcher at the Swedish Institute for Textile Research at Gothenburg, Sweden, in 1956-57, working on fluid flow and control system problems in textile processing. He organized and gave a special course in control engineering at the Chalmers Institute of Technology in Gothenburg.

A graduate of Illinois Institute of Technology in 1944, he received his master of science, master of engineering, and doctor of science degrees from M.I.T.

* * *

Dr. Grant N. Farr, professor of economic history and labor at the University of Colorado since 1952, has been named professor and head of the department of economics, effective Aug. 6.

Dr. Farr received all three degrees at the University of California at Berkeley. He was a teaching assistant

(Continued on page six)

College of Science Approved

ORGANIZATIONAL plans for the new College of Science, approved in principle by the Board of Trustees last January, were approved in detail last weekend, effective July 1.

The College will embrace the departments of botany, biochemistry, biophysics, chemistry, mathematics, microbiology, physics, and zoology.

The reorganization brought about these changes:

a. The College of Chemistry and Physics is discontinued.

b. Department of chemical engineering joins the College of Engineering.

c. Department of mathematics will be transferred from the College of the Liberal Arts.

d. Programs in botany, biochemistry, bacteriology, and zoology will be transferred from the College of Agriculture. Bacteriology will be redesignated department of microbiology.

e. A department of agricultural plant pathology and a department of

agricultural entomology will be established in the College of Agriculture.

The College of Science, along with the existing College of the Liberal Arts and the College of Arts and Architecture established January 1 of this year, will provide programs of liberal education for undergraduates and instruction and research at the graduate level.

"The professional or vocationally-oriented schools and colleges," says Dr. J. R. Rackley, vice-president for resident instruction, "will continue to furnish both undergraduate and graduate programs to meet the needs of students, the society, and the economy."

Education Changes Made

A department of special education and a new department of educational psychology have been established in the College of Education and the department of industrial education will become the department of vocational education and its scope enlarged. All the changes are effective July 1.

The department of special education will be composed of personnel concerned with the programs of the Speech and Hearing Clinic including speech pathology and audiology, the Reading Center, and in the preparation of teachers for the mentally retarded, physically handicapped, mentally gifted, and the socially and emotionally maladjusted.

The new department of educational psychology will be composed of members of the faculty formerly in the departments of psychology and of educational services. Instruction and research in the psychology of teaching and learning processes, the measurement of achievement and intellectual abilities, statistical inference and research design in education, and newer media of education, including programmed instruction, will all be conducted in the new department.

The department of vocational education will embrace preparation of vocational education supervisors and teachers of vocational and trade subjects, secretarial science, and business education in high schools, vocational and trade schools, and technical institutes.

The program in industrial arts education is being transferred to the department of secondary education.

Trustees elected

Samuel F. Hinkle, president of the Hershey Chocolate Company in Hershey, Pa., has been elected to the Board of Trustees by delegates of industrial societies.

He is the only new Trustee elected to the Board to which the following incumbents were re-elected:

By industrial societies: G. Albert Shoemaker, Pittsburgh.

By agricultural societies: J. Collins McSparran, Harrisburg; C. L. Packard, Roaring Spring.

By alumni: J. E. Holtzinger, Altoona; Ben C. Jones, Pine Grove Mills; John L. Romig, Kennett Square.

Library hours

Pattee Library hours from now until the opening of the Fall Term will be as follows:

Saturday, June 15—8 a.m. to noon.

Sunday, June 16—closed

Monday and Tuesday, June 17-18—8 a.m. to 5 p.m.

From June 19, to August 31—Sundays, 2 p.m. to 10 p.m.; Monday through Friday, 7:50 a.m. to 10 p.m. (except closed on July 4); Saturday, 7:50 a.m. to 5 p.m.

From Sept. 1 to Sept. 29—Sunday, closed; Monday through Friday, 8 a.m. to 5 p.m. (Sept. 2, closed); Saturday, 8 a.m. to 12 noon.

Brickwedde named

Dr. Ferdinand C. Brickwedde, dean of the College of Chemistry and Physics, has been named Evan Pugh Research Professor of Physics, effective July 1. The College of Chemistry and Physics will be discontinued July 1 with the organization of the new College of Science. Dean Brickwedde asked that his name be withdrawn from consideration for the position of dean of the new college.

Dr. Brickwedde is widely known for his research at low temperatures and for leadership in establishing new standards of temperature measurement. He is currently serving on several national and international committees for low temperature research. He is serving as a member of the organizing committee for the Ninth International Conference on low temperature physics to be held in Columbus, Ohio, next year. He is editor of a newly-published reference work on "Temperature, Its Measurement and Control in Science and Industry."

ROTC voluntary

A voluntary program of basic R.O.T.C. training will be offered by the University, effective July 1, 1964, as a result of action by the Board of Trustees last weekend.

The action was taken with the understanding that if new legislation is enacted by the Congress pertaining to R.O.T.C., the Board will again review the action taken.

Last October the University Senate voted by 104 to 99 to recommend that R.O.T.C. be placed on a voluntary basis and the Board last January tabled the recommendation pending action by the U. S. Congress on a Department of Defense proposal that Army and Air R.O.T.C. programs be essentially two-year programs for volunteers who have been selected for officer training. So far Congress has not taken action on the proposal.

Languages

The department of Romance languages has been reorganized into three separate departments, effective July 1, because of an increase in enrollment and added emphasis on language instruction.

A new department of classical languages, with Dr. Franklin B. Krauss as head, will offer programs in Hebrew, Latin, and Greek.

Heads of the other two departments—French; and Spanish, Italian, and Portuguese—will be named at a later date.

Green awarded

Dr. Robert W. Green, associate professor of European history, will receive the 1933 Class Award for Outstanding Contributions in the Field of Humanities at the Class of 1933 Banquet at the Centre Hills Country Club tomorrow (Saturday) night.

The award, which was given last year for the first time to Dr. Harrison T. Meserole, associate professor of English, consists of a \$300 cash gift and a plaque citing the recipient for "outstanding contributions in the field of the humanities."

Dr. Green has been a member of the faculty since 1952. He is a graduate of Iowa State University where he also received the doctor of philosophy degree. The University of Chicago granted him the master's degree.

He is the author of "Protestantism and Capitalism—the Weber Thesis and Its Critics," and of many articles for scholarly journals.

Pittman cited

Hobson Pittman, who has taught summer painting classes here since 1932, was honored at Commencement Exercises last Saturday with the Penn State Medal award, which is given for "outstanding contributions to higher education."

A native of Tarboro, N. C., Pittman has spent most of his creative life in Philadelphia and was director of art at the Friends Central Country Day School in Overbrook, Pa., from 1931 to 1957. He has been instructor in painting and a critic at the Pennsylvania Academy of Fine Arts and the Philadelphia Museum of Art.

Pittman was cited as "a distinguished American painter and an inspiring teacher who has devoted much of his life to encouraging others—the professional artist, the art teacher, or the person who paints for his own enjoyment—to discover their skills."

His own works have been exhibited internationally and are hung in permanent collections in many of the leading U. S. galleries.

Physical education

The College of Physical Education and Athletics has been redesignated the College of Health and Physical Education.

The new designation will more accurately reflect the educational program at the college, in which nearly 300 are enrolled in undergraduate programs.

Engineering meeting

Penn State will be represented in the programs of the 71st annual meeting of the American Society for Engineering Education in Philadelphia next week.

President Walker will address a general session on "The Goals of Engineering Education." He is a past president of the Society. He will also preside at a session "Goals of Engineering Education."

Dr. M. A. Williamson, dean of the College of Engineering, will speak on "The Institute for the Certification of Technicians" before the Relations with Industry Division.

Paul Ebaugh, assistant dean of the College of Engineering, will speak on "Some Thoughts on Future Organizations of Multi-Disciplinary Graduate Degree-Related Research Teams," at the meeting of the Engineering College Research Council.

A paper titled, "The Introduction of Digital Computer Programming at the Freshman Level" will be given before the Mathematics Section meeting by Arthur T. Thompson, associate dean, and Charles Forney, Jr., assistant professor of engineering research.

Other papers will be given by:

Benjamin W. Nickel, head of the industrial engineering department, on "Basic Curriculum Requirements for Industrial Engineering Technology as Seen by the Industrial Engineering Department," before the Technical Institute.

James D. Bowman, instructor in industrial engineering, "Air-Lift Tables for Machine Tools," before the Industrial Engineering Division.

Robert A. Campbell, assistant professor of engineering graphics, on "The Dissemination of Research Results in Graphics," before the Industrial Engineering Division.

William H. Park, assistant professor, and **Arthur D. Brickman**, associate professor of mechanical engineering, will be in charge of an exhibit on "Dynamic Simulation Laboratories," at sessions of the Mechanical Engineering Division.

Also presiding at meetings during the week-long sessions will be:

Dr. Otis E. Lancaster, George Westinghouse professor of engineering education, at meetings of the Educational Methods Division and of the advisory committee of the Summer Institute on Effective Teaching.

Edward L. Keller, director of Continuing Education, at a session of the national Legislation committee.

Thomas Minder, College of Engineering librarian, at meetings of the Nuclear Engineering Section of the Engineering School Libraries.

William A. Dunn, assistant professor of continuing engineering education, as a moderator of a Technical Institute session.

Pavilion theatre

Jean Anouilh's comedy, "The Waltz of the Toreadors," will open the Summer Season at Pavilion Theatre on Tuesday, June 18. Curtain time is 8:30 p.m. and the play will run until June 29, Tuesdays through Fridays.

Leon B. Stevens, a summer theatre favorite, will play General St. Pe, retired general who was quite a soldier and a lover in his day. Esther Benson is his nagging wife, Lydia Bruce is the silly spinster, and Max Gulack is Dr. Bonlant, family physician and friend.

Students in residence appearing in the play include James Andrews as the general's secretary, Irish Archer and Christy Werner as the two unattractive daughters, and Joanne Beegle as a flirtatious seamstress, Art Sokolove as the parish priest, and Olivia Jones as the maid.

The box office at Pavilion Theatre opens daily at 10 a.m. and reservations may be made by calling UN 5-6309. Until June 17, the box office will be open until 6 p.m. except Sunday and from June 18, will be open until 10 p.m. Tuesday through Saturday and until 6 p.m. Monday.

Frasconi show

Prints by Antonio Frasconi will be on exhibit in the HUB Gallery from June 23 to July 15.

A public reception for the artist will be held Sunday, June 23, at 4 p.m. in the Gallery. A movie of his woodcuts, titled "Neighboring Shore," will be shown in the HUB assembly room at intervals between 4 p.m. and 5:30 p.m. The movie was a 1960 Venice Film Festival Grand Prix winner.

Fifty-eight one-man exhibitions of Frasconi's work have been held in the U. S., Mexico, and Uruguay, and he has participated in traveling exhibitions, organized by the Museum of Modern Art and the U. S. Information Service, which have been shown in various countries of Europe, Latin America, and Asia.

Frasconi has made woodcuts for such publications as Fortune, Scientific American, and Seventeen and his work includes the design of record covers. He studied first at the Circulo de Bellas Artes, Montevideo, and had scholarships at the Arts Students League and the New School for Social Research. He was awarded a Guggenheim Fellowship for 1952-53 to illustrate the poetry of Walt Whitman and Federico Garcia Lorca. He also won a grant from the National Institute of Arts and Letters in 1954. He has taught at the New School, the Brooklyn Museum, and Vassar.

CALENDAR

Friday, June 14

Alumni Institute and Class Reunion program begins. Lectures and panel discussions at 10:30 a.m. and 3:30 p.m.

Sunday, June 16

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Donald Caruthers on "Where He Had Brought Up."

Monday, June 17

Summer Term orientation program begins. 19th Women's Collegiate Golf tournament opens, continues until June 21.

Tuesday, June 18

Summer Term registration.

Wednesday, June 19

Summer Term classes begin, 8 a.m.

Games classes

Della Durant, associate professor of physical education, will again direct the free instructional classes in games and swimming for children and swimming for adult women this summer.

Children's swimming classes will be restricted to children of University academic personnel only. The adult women's swimming class is open to staff and faculty. Games classes are open to all area children.

Registration for all classes will be held Thursday, June 20, from 1 to 2 p.m. in White Hall lobby. Enrollment is limited in each activity, and acceptance will be granted in order of registration, which must be done in person. If the parent does not accompany the child to registration, it is necessary that the child bring to the first class a form, which will be supplied at registration, signed by the parent.

Classes being offered are the following:

Games—children who will be in first or second grade, each Monday 9:45 to 10:45 a.m., July 1 to Aug. 12.

Games—children in third or fourth grade, Wednesdays, 9:45-10:45 a.m., July 3 to Aug. 14.

Swimming—children's beginners, 8-12 yrs., minimum height, 46 inches for those who cannot swim or are not safe in deep water. Tuesdays and Thursdays, 1:15 to 2:15 p.m., June 25 to Aug. 22.

Swimming—same as above but 12:15 to 1:15 p.m.

Swimming—adult women's class, age 21 and above, Tuesdays and Thursdays, 2:15 to 3:15 p.m., June 25 to Aug. 22.

Swimming—intermediate, advanced class for children 8 to 12, able to swim in deep water a minimum of 75 yards. Tuesdays and Thursdays, 3:15 p.m. to 4:15 p.m., June 25 to August 22.

Swimming—synchronized class for girls only, ages 13 to 15, able to swim in deep water minimum of 75 yards who can swim basic strokes, Tuesdays and Thursdays, 4:15 to 5:15 p.m., June 25 to Aug. 22.

Alumni institute

Many faculty members are taking part in the Alumni Institute program this week. The Institute, in conjunction with 1963 Alumni Class Reunions, gets under full sway today.

At 10:30 a.m. today in the HUB Assembly Room, a panel discussion on "The United States in a Cross-Fire of Revolutions," will have as panelists Dr. E. C. Pollard, professor of biophysics; Dr. Marvin E. Rozen, associate professor of economics; Dr. John A. Maurant, professor of Philosophy; and Dr. Jules Heller, dean of the College of Arts and Architecture. Dr. R. T. Oliver, head of the department of speech, will be moderator.

At 2 p.m., various lectures and panel sessions will be held at a number of locations. Dr. T. S. Stanford, associate dean of admissions, will speak on "Would You Be Accepted Today?"; Dr. Alfred G. Pundt, professor of European history, on "Growing Pains of the New Africa"; Dr. H. E. Goodwin, head of the speech department, "Is TV a Wasteland?"; Dr. C. L. Hosler, head of the meteorology department, "Will Weather be Made to Order"; and a panel of Dr. August Peastrel, assistant professor of psychology, Dr. Margaret B. Matson, associate professor of sociology, and Dr. John D. Wahner, psychiatrist, on "Mental Health."

OTHER LECTURES

At 3:30 p.m., the following lectures will be given: Dr. J. B. Frantz, instructor in history, "Colonial Pennsylvania: A Glance at the Future"; Dr. A. L. Williams, "Medical Care for the Aged: A Financial Dilemma"; George S. Zoretich, professor of art, and Stuart H. Frost, assistant professor of art, "Two Painters Illustrate Their Art"; Charles Forney, Jr., assistant professor of engineering research; "Will Machines Take Over?"; and a panel of E. S. Kenney, research associate in engineering, Dr. W. W. Miller, professor of chemistry, and Dr. F. J. Renick, director of the nuclear reactor, on "The Problem of Radioactive Fallout."

Other activities for the weekend include dinners and parties this evening (Friday); campus bus tours tomorrow morning, the All-Class Luncheon at Rec Hall at 12:30 p.m. tomorrow, the Alumni Parade at 2 p.m., the President's Report on the State of the University in Schwab Auditorium and presentation of Distinguished Alumnus and Woman of the Year Awards in Schwab Auditorium, and at 6:30 p.m. the several class banquets.

Deans—

(Continued from page one)
published in 1955 and many papers published in professional journals.

Dean Jackson came to the University from the presidency of the South Dakota State College of Agriculture and Mechanic Arts, which he had served for five years. A native of Wisconsin, he was graduated from the University of Wisconsin in 1921 and also received his master of science degree there in 1925. His Ph.D. was granted by the University of Minnesota in 1931.

From 1921 to 1924, Dean Jackson taught vocational agriculture in Wisconsin and for the next year was county agricultural extension agent and assistant State 4-H Club Leader. In 1925 he was named to the faculty at North Dakota Agricultural College. He was at the University of Minnesota from 1927 to 1929 and then joined the Ohio State University faculty. He served with the U.S.D.A. in 1935-36 while on leave, then was named junior dean of the College of Agriculture at Ohio State, serving in that position until going to South Dakota A. and M.

Dean Jackson has played important roles in the Association of State Universities and Land-Grant Colleges. He is co-author of "Crop Management and Soil Conservation"; "Field Crops and Land Use"; and "Livestock Management."

Dr. Howard L. Hartman, professor of mining engineering and head of the department of mining, has been named associate dean of the College of Engineering, effective July 1, filling the vacancy created by the resignation of Arthur T. Thompson, who has been named dean of the College of Industrial Technology at Boston University.

Dr. Hartman will continue as professor of mining engineering. He was named to his present position in 1957 after serving as acting head of the department of mining engineering at the Colorado School of Mines.

A graduate of Penn State in 1946, he received the master of science degree with a major in mining engineering in 1947. He served for a year as instructor, then accepted a position as a mining engineer for the Phelps Dodge Corp. of Bisbee, Ariz. He was next Arizona State Mine Dust Control Engineer. He was on the faculty of the University of Minnesota for four years before going to the Colorado School of Mines.

(Continued on page six)

Personnel—

(Continued from page five)

there from 1946 to 1949, following which he was instructor at the University of Colorado for two years. During 1951 and 1952 he served as assistant regional economist for the U. S. Office of Price Stabilization. During the summers of 1956 and 1961 he returned to the University of California as visiting professor. From 1957 to 1960 he was chairman of the department of economics and acting director of the bureau of economic research at the University of California.

He is author of the book, "The Origins of Recent Labor Policy" and co-author of "Public Assistance and Services in Colorado" and "The Evolution of Public Policy toward Collective Bargaining."

Mason—

(Continued from page one)

was graduated from Pacific University, received the master of arts in economics from the University of Washington, and the doctor's degree from Princeton.

In 1958, Dr. Mason was one of the winners in a nationwide essay contest sponsored by the Committee for Economic Development on the subject, "What Will Be the Outstanding Economic Problem Confronting the United States in the Next 20 Years?"

The award is a memorial to the late Louis H. Bell, professor of journalism and director of public information who was the first director of the University Press, from 1956 to 1958.

Mook—

(Continued from page one)

He has also done field work among communities of "Plain People" of Pennsylvania since 1950 and has lectured on the subject more than 200 times.

He has written many articles on Indian tribes, Quaker history, Amish communities, and Pennsylvania folklore. He is co-author of a book on an Arizona Indian tribe under the title, "Walapai Ethnography."

Graduate exam

Graduate students who are planning to take the written foreign language reading examination at the next scheduled time, July 15, and who have not previously taken the preliminary oral test given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows: By making an appointment at Room 227 Sparks Building for the German oral tests, which are to be given June 18, at Room 211 Sparks Building for the French and Spanish oral tests, also to be given June 18, and at 218 Sparks Building for the English oral tests, to be given on June 18 also. Ph.D. candidates presenting English as one of their foreign languages must have written permission from the Dean of the Graduate School.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on July 15 no later than June 21 in Room 218 Sparks for English, Room 227 Sparks for German, and in Room 211 Sparks for French and Spanish.

Deans—

(Continued from page four)

Dr. Hartman's research at Penn State has been concerned primarily with mine ventilation and mechanics of penetration in rock drilling processes. He is author of "Mine Ventilation and Air Conditioning," a text and reference book.

Samuel C. Sabeen has been appointed assistant dean of the College of Arts and Architecture and associate professor of art. He has been acting dean since the new College was organized earlier this year.

Dr. Jules Heller, dean of the College, says Sabeen's major duties will be concerned with resident instruction and students, and related problems.

A member of the faculty since 1957, Dean Sabeen organized and set up the department of design in the studio division of the art department and reorganized the sculpture department.

Before coming to Penn State, he was instructor in design, sculpture, drawing and painting at the University of Minnesota 1947-51 and taught at the Colorado Springs Fine Arts Center, 1951-57.

A graduate of the Minneapolis School of Art, he studied design at the Chicago Institute of Design and painting at the Hans Hofmann School of Art in New York. He was granted the bachelor of arts degree in art history from the University of Minnesota in 1925.

Sabeen has exhibited widely, his paintings having been in the Columbia Painting Biennial and the Philadelphia Academy of Arts Annual National Exhibition.

faculty BULLETIN

Vol. 50, No. 46 June 14, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RUBY MILLER
PATTEE LIBRARY.

82

faculty BULLETIN

4 Weekly Publication
The Pennsylvania
State University

Film schedule

The Summer International Arts Film Program, provided this year by the Museum of Modern Art, will begin Thursday, June 20, with two major films of the 'twenties and a short feature made in 1936.

Tickets, including season-long subscription tickets priced at \$3.50 for the ten shows, may be obtained at the HUB desk. The films will be shown on the dates indicated at both 7 and 9 p.m. at the HUB Assembly Room.

June 20—Chess Fever (1922); Mother (1926) directed by V. I. Pudovkin, Russian; The Plow That Broke the Plains (1936) short feature.

June 27—Leaves From Satan's Book (1918-21) directed by Carl Dreyer (Danish); In the Street (1952) with James Agee (short).

July 4—The Cabinet of Dr. Caligari (1920) directed by F. Wiene, German Sausalito (1947) by F. and B. Stauffer (short).

July 11—Le Million (1930) by Dr. Rene Clair, French; Images Medievales (1948) by William Novik (short).

July 18—Desire (1936) directed by Lubitsch and Borzage, with Marlene Dietrich; Japanese House (1955) (short).

July 25—Sunrise (1927) by F. W. Murnau, with Janet Gaynor; St. Louis Blues (1928) with Bessie Smith (short).

Aug. 1—Morocco (1930) directed by von Sternberg, with Marlene Dietrich; Pow Pow (1960) by Allen Down (short).

Aug. 8—Intolerance (1916) directed by D. W. Griffith.

Aug. 15—Chapayev (1934) directed by the Vassiliev Brothers; Guernica (1949) by Robert Flaherty (short).

Aug. 22—Destiny (1921) by Fritz Lang; Le Chien Andalou (1929) by Bunuel and Salvador Dali (short).

Liberal education to be discussed

The creation of three "core colleges" (Liberal Arts for humanities and social sciences, Arts and Architecture for fine arts, and Science, for the biological, mathematical, and physical sciences) offers the opportunity for discussions of means of further developing undergraduate liberal education at Penn State, Dr. J. R. Rackley, vice president for resident instruction, said today.

Discussions in this area have already been held not only between University administrators and deans of the respective colleges but also planning committees and interdisciplinary groups of faculty members meeting informally to consider such problems as the following:

1. What are the most effective means of maintaining liaison between the faculties of the three core colleges? And, as a corollary, what are the best ways of maintaining liaison between faculties of professional fields and those of liberal education?

2. What are the best ways of developing non-professional curricula? For example, how should college lines be crossed in order to bring about new or revised curricula?

3. How can the faculties of the non-professional colleges best serve the students seeking primarily a liberal undergraduate education?

An early consideration of these matters will be given on a University-wide basis Wednesday, July 10, at 8 p.m. in Room 121 Sparks, with Dr. H. K. Schilling, dean of the Graduate School, as moderator.

A proposal for the formation of a "Faculty for Undergraduate Liberal Education, will be one of the subjects introduced at the meeting.

All members of the faculty are invited to participate in the discussions which will consider not only the problems cited but others which may be of equal concern.

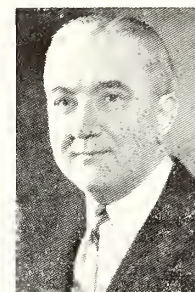
Construction

Expansion of residence hall capacity on the University Park campus from the present 9,000 to 12,200 by 1966 has been authorized by the Board of Trustees.

To finance the new units, the Board authorized issuance of Series G bonds in the amount of \$7,400,000 and they have been sold. The bonds will be amortized with income from residence and food service charges.

Final plans for residence halls authorized last December were approved by the Board June 8. The units include space for 1,000 students and dining facilities for these and the 1,200 which would be housed in units to be completed in 1966. All of the new buildings will be located in the East Halls area.

New trustee



Hinkle

Samuel F. Hinkle, newest member of the Board of Trustees elected by delegates of industrial societies is president and chairman of the board of the Hershey Chocolate Corp., Hershey, Pa. He is a 1922 graduate of the

University with a bachelor of science degree in chemical engineering.

He was named one of the University's Distinguished Alumni in 1957 with a citation that read, "To Samuel Forry Hinkle, whose devotion to his job has helped develop one of the nation's finest firms; whose efforts for his country helped save countless lives in World War II; whose regard for his town has helped perpetuate a model community; and whose humility in success has earned the respect of all who work with him."

Two years after graduation, Mr. Hinkle began his employment with the Hershey Chocolate Corp. and was until 1947 chief chemist and director of research. He was named plant manager in 1947 and was elected president in 1956. Before joining the Hershey corporation in 1924, he was chemist at the Norton Co., Chippawa, Ontario, and the National Abrasive Co., Niagara Falls, Ont.

In 1942, Mr. Hinkle was cited for "meritorious service in research and development phases of the World War II food program of the Army."

Director of the Hershey Trust Co., Hershey National Bank, Pennsylvania Manufacturers Association, the Pennsylvania State Chamber of Commerce and of other commercial and industrial organizations, Mr. Hinkle is also a member of the American Chemical Society and the American Association for the Advancement of Science.

He is extremely active in many community affairs.

ALUMNI FUND

Contributions to the 1963 Alumni Fund, which closes June 30, totalled \$240,505.28 from 9,025 contributors as of June 14.

SENATE MINUTES

Meeting of June 4, 1963

The University Senate met at 3:55 p.m. on Tuesday, June 4, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the May 7, 1963 meeting were approved as printed in the Faculty Bulletin for May 17, 1963. One hundred sixty-five senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Martha A. Adams (Virginia Wolf), Rose Cologne (Margaret Jacobson), G. W. Harvey (R. A. Klima), E. P. Hexner (E. A. Myers), B. B. Lethbridge (R. S. Stout), W. H. Powers (K. V. Manning), Willa Taylor (T. K. Karhan), W. P. Winter (J. W. Siphron), and G. F. Wislizenus (J. L. Lunley).

New Senators

A letter was read from Jules Heller, Dean of the College of Arts and Architecture, naming the elected senators for the 1963-1966 term as follows: F. E. Hyslop, T. K. Karhan, L. F. Raver, and R. D. Reifsnider. H. E. Dickson to replace Robert Enggass for the 1963-64 term.

The following letter from P. A. Shelley, Chairman of the Senate Committee on Courses of Study was read:

The Senate Committee on Courses of Study is charged with reporting to the Senate annually those courses which have not been taught for the preceding five years and are accordingly liable to automatic drop. The University Scheduling Officer has compiled such a list for the past five years, which the Committee wishes to be distributed at the June meeting of the Senate. Henceforth, in accordance with a revision of its procedures in this respect, the Committee will regularly report the list of courses not taught for five years at the June meeting of the Senate. The surveys will be made during each Spring Term. At the same time departments will be advised of those courses which have not been given during the preceding four years, so that, subject to existing regulations, permission may be sought to give courses in question during the fifth year.

The list of automatically dropped courses is as follows:

Agro 44	Econ 429	I Sc 7	R Soc 12
Arch 100	Engr 422	I Sc 69	Soc 405
Arch 421	Ent 445	L Sc 407	Soc 431
A M T 401	FEHM 423	Mng 490	Span 411
Astro 92	F N 423	Music 408	Spch 100
Bot 433	F N 425	P N C 490	Spch 102
Chem 413	F N 455	Ph Ed 453	Spch 105
C E 451	For 455	Psy 411	Fhea 105
Cl 1x 205	HJE d 406	Psy 420	Zool 433
Consv 1	I E 429	Psy 429	

Reports of Standing Committees

J. R. Hayes, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix

"A." He moved that the recommendation to amend Rule P-12 of the Senate Policies and Rules for Undergraduate Students be adopted as follows:

P-12. *A student except (a) a candidate for an associate degree and (b) a transfer student from another college or university at the end of his initial term, shall be dropped from the University for unsatisfactory scholarship at the end of the indicated term in accordance with the following schedule of action:*

Term Classification	If Cumulative Average Falls Below
Third	1.40
Sixth	1.60
Ninth	1.80
Twelfth	1.90

The motion was seconded and passed. The complete report is on file in the office of the secretary.

H. E. Goodwin, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "B" regarding *Changes in Admissions Requirements for Associate Degree Programs in Engineering and Chemistry and Physics*. He moved adoption of the recommendation that the admission requirements for two-year Associate Degree curriculums be revised to read as follows, effective September, 1964:

ADMISSION REQUIREMENTS—Applicants shall have been graduated from an accredited secondary school and shall have completed at least 15 Carnegie units of preparatory work, except that graduates of three-year senior high schools need present only the 12 units of work taken in senior high school. All applicants must have completed at least three units of English.

Applicants for admission to Drafting and Design Technology, Electrical and Electronics Technology, Production Technology, or Surveying Technology curriculums must have completed at least two units of mathematics. One unit of mathematics must be in algebra and the other must be in algebra or plane geometry.

Associate degree applicants for Agriculture, Business Administration, and Hotel and Food Service curriculums are not required to have completed mathematics.

Applicants for admission to all Associate Degree programs except Chemical Technology must submit scores of the Scholastic Aptitude Test of the College Entrance Examination Board or of the Penn State examination. Applicants who rank in the highest three-fifths of their secondary school are admitted to the Chemical Technology curriculum without examination. All others applying for admission to that curriculum must submit S.A.T. or Penn State examination scores.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

R. H. Wherry, Chairman of the SENATE COMMITTEE ON ATHLETICS, presented the report which had been distributed with the agenda as Appendix "C." He moved adoption of the recommendation to revise

Rule X-6 of the Senate Policies and Rules for Undergraduate Students as follows:

A student matriculated in the University, who wishes to participate in any athletic event not conducted under intercollegiate or collegiate auspices of recognized character shall apply in writing, furnish all required information, and secure permission ten days in advance from the Senate Committee on Athletics in order to maintain his amateur standing and eligibility to participate in intercollegiate athletics. A student failing to obtain such permission in advance may be declared ineligible for membership on University athletic teams.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "D." He stated that this report was in two parts and asked that they be considered separately. Item I contained a recommendation regarding course and curriculum proposals. He moved that the recommendations in Items IA and IB be adopted. The motion was seconded and passed.

Mr. Shelley then moved approval of Item II, of Appendix "D" regarding a new DEFINITION OF COURSES IN THE 400 SERIES. The motion was seconded. Mr. Shelley commented on the proposal. Item II reads as follows:

Under date of February 12, 1948, the Senate adopted a recommendation of the Committee on Courses of Study defining courses in the 400 series to be "graduate courses in fact as well as in name" and, later in the same report, "of graduate caliber." It was further recommended and approved "that all proposed 400 courses submitted to the Courses of Study Committee be transmitted to the Graduate Faculty for action prior to final consideration." It is apparent that in the interim such graduate-undergraduate courses have come in fact to be considered undergraduate-graduate courses, that is to say, instead of bonafide graduate courses to which juniors and seniors may be admitted, rather advanced undergraduate courses, a limited number of credits in which may be counted towards masters' degrees, according to the rules of the graduate school. Accordingly, in the light of this changed conception, which the Committee shares, it now recommends that the Senate adopt as the official definition of courses in the 400 series that they are advanced undergraduate courses, open as previously to graduate students and to Juniors and Seniors (i.e., students with seventh to twelfth term standing) and, with special permission of the Head of the department or chairman of the program sponsoring the course, to qualified students in earlier terms. Adoption of the proposed revised definition would mean that actions relative to courses in the

(Continued on page four)

PERSONNEL MATTERS

Dr. Ernest C. Pollard, professor of biophysics, has been named head of the new department of biophysics which will be part of the College of Science beginning July 1. He has headed the Committee of the Graduate School concerned with the program of graduate study leading to a master of science or Ph.D. degree with a major in biophysics, while the biophysics work was conducted in the department of physics.

In 1960, Dr. Pollard came as Distinguished Visiting Professor of Biophysics and a year later was appointed professor of biophysics. He began his teaching and research career in 1930 as assistant lecturer in physics at Leeds, England, University; came to the United States in 1933 as Sterling Fellow at Yale University, where he remained until he came here.

During World War II, Dr. Pollard was a division head in the Radiation Laboratory of Massachusetts Institute of Technology, concerned with the development of microwave ground and ship radar.

* * *



Rodgers

Dr. Allan L. Rodgers, professor of geography, will head the department of geography from July 1, 1963 to June 30, 1967, replacing Dr. E. Willard Miller who will continue as professor of geography.

Dr. Rodgers, a graduate of City College of New York with advanced degrees from the University of Wisconsin, came to Penn State in 1950 from the University of Oklahoma where he was assistant professor of geography.

* * *

Dr. Ralph L. Day, associate professor of marketing at the University of Texas, has been named professor of marketing, effective July 1. He is a graduate of the Georgia Institute of Technology and received his doctorate at the University of North Carolina. He has been a part-time instructor at the University of North Carolina, as instructor at Georgia Tech,



Pollard

part-time instructor at Georgia State College, chief sales estimator at Otis Elevator Co., and was visiting assistant professor at Carnegie Tech while on leave from the University of Texas.

A researcher in the development and testing of different types of computer models, Dr. Day has also done extensive work in development and testing of business games. He is the author of several books and of many articles on marketing and business.

* * *

Dr. Alphonse A. Brielmaier, professor of civil engineering at Washington University in St. Louis, Mo., has been named professor of civil engineering, effective Sept. 1.

A member of the Penn State faculty from 1944 to 1948 and a member of the University of Illinois faculty from 1937 to 1941, Dr. Brielmaier has served industry as structural engineer for buildings and highways in many parts of the country.

* * *

Dr. Donald Jester, professor of business education at Nebraska State Teachers College, will be visiting professor of education for the Summer Term. He has been at Nebraska State since 1961 and has been on the faculty of Los Angeles State College and Northwestern University and taught at Holdridge High School in Nebraska.

* * *

Dr. Robert S. Cathcart, professor of speech at Los Angeles State College, will be visiting professor of speech for the Summer Term, teaching a graduate course in speech composition and criticism. A member of the governing council of Los Angeles State College, Dr. Cathcart received his master's degree from the University of Redlands and doctorate from Northwestern University.

* * *

Dr. R. J. Heinsolhn, instructor in mechanical engineering at Michigan State University, has been appointed assistant professor of mechanical engineering effective with the Summer Term. He is a graduate of Rensselaer Polytechnic Institute, Troy, N. Y.; obtained his master of science degree from M.I.T.; and was granted the doctorate by Michigan State. He was instructor in engineering mechanics at The Johns Hopkins University from 1956 to 1958, was a U. S. Air Force officer with Headquarters Air Research and Development Command Administration for two years, and has served as analytical engineer with Pratt and Whitney Aircraft Corp. He has published four papers on flame stabilization.



Miss Adoll

Dr. Helen Adoll, professor of German, retired June 16 as professor emerita. A member of the faculty for 20 years, she has won distinction in many ways for her scholarly work, and is known widely for her studies of the Holy

Grail Legend. In 1960, she received the University's Louis H. Bell Memorial Award for her book, "Viscio Pacis: Holy City and Grail." In 1958, Miss Adoll was the first Liberal Arts Research Scholar. In 1951 she received honorable mention from the Journal of Aesthetics and Art Criticism for one of her articles on the Grail. In 1950 a German scholarly journal commissioned her to write an article surveying her research on the Grail. Her etymological research was cited in a Russian scholarly periodical in 1957.

A native of Vienna, Miss Adoll came to the U. S. in 1939, lecturing in private schools in Colorado and Virginia. In her teaching here, she created a course, "Legendary and Literary Background of Wagner's Operas," given with G. W. Henninger, of the music department.

Dr. Adoll has accepted an invitation to be visiting professor of German next year at Muhlenberg.

* * *

Dr. Howard W. Dunne, professor of veterinary science, is in a six-week cultural exchange program in Russia, and will also attend the World Veterinary Congress Aug. 14-20 at Hanover, Germany. The objective of the exchange program, which involves public health veterinarians, is to exchange ideas and methods of studying diseases of animals, primarily those transmitted to man.

* * *

Dr. Samuel Sharp, member of the faculty of American University, has been named visiting professor of political science for the Summer Term. Native of Poland, Dr. Sharp, a member of the American University faculty since 1950, received a doctor of jurisprudence degree from the University of Warsaw in 1932.

* * *

Orvel A. Schmidt, associate professor of forestry, will study and conduct research at the University of Freiburg, Germany, while on leave from September through November. He plans to study the industrial utilization of forest products in Germany and northern Switzerland.

Senate—

(Continued from page two)

400 series would no longer require approval of the Graduate Faculty through the Graduate School Courses of Study Committee.

R. H. Waters moved that a change be made in next to the last line of the report by changing the words "no longer" to "continue to." The last sentence would then read:

Adoption of the proposed revised definition would mean that actions relative to courses in the 400 series would continue to require approval of the Graduate Faculty through the Graduate School Courses of Study Committee.

The motion was seconded and lost. The motion as presented by Mr. Shelley was passed. The complete report is on file in the office of the secretary.

C. L. Hosler, Chairman of the SENATE COMMITTEE ON LIBRARY, presented the report which had been distributed with the agenda as Appendix "E" and moved that the two recommendations contained in the report be adopted. The motion was seconded and passed. The recommendations are as follows:

1. *The University Senate urges the University administration to direct the librarian, with all due haste, to establish a basic reference library in every living unit on the Penn State campuses, using the Jefferson House arrangement as a model. As funds permit, this basic library should be expanded to include a good reference or second text for as many of the large enrollment elementary courses as possible.*
2. *It is further recommended that all living units constructed henceforth have book shelves provided in the study lounge and that the basic reference library be a part of the furnishings.*

The complete report is on file in the office of the secretary.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "F" for the information of the Senate. He stated that this editorial change in the By-Laws was made because of the change in a title of a position in the membership of the Senate. The Senate agreed to the editorial change which would change Article II, section 1(m) to read as follows:

Rules, four members, and, ex officio, the Secretary of the Senate and the Associate Director for Instruction.

The complete report is on file in the office of the secretary.

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting. This report had the approval of President Walker and is as follows:

(To be continued next week)

Tuition refund

Details of the tuition-refund plan at Wyomissing Center for students in the Textile Machine Works training program have been announced.

The students, specially selected for the program by TMW, will pay their own tuition initially but will be refunded all or part of the tuition depending on their term grades. For an average between 3.0 and 4.0, the student will receive a full refund; for 2.67 to 2.99, 75% refund; for 2.34 to 2.66 average, 50% refund; and for 2.00 to 2.33, a 25% refund.

The refund plan is based only on the grades for the specific term and not for cumulative average.

The students will be enrolled in two-year associate degree programs in drafting and design technology, electrical technology, and chemical technology.

CALENDAR

Friday, June 21—Pavilion Theatre, "The Waltz of the Toreadors," 8:30 p.m.; also Saturday, June 22.

Sunday, June 23—Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Rabbi Stephen Schafer, Keneseth Israel Congregation, Allentown, Pa., on "What Christians Should Know About Judaism."

Tuesday, June 25—Pavilion Theatre, "The Waltz of the Toreadors," 8:30 p.m.; also Wednesday through Saturday.

Thursday, June 27—Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. A.E.B. Presland, Imperial College of Science and Technology, London, England, on "The Annealing and Oxidation Behavior of Irradiated Graphite."

Thursday, June 27—International Arts Film, 7 and 9 p.m., HUB Assembly Room. "Leaves from Satan's Book," produced in 1918 and "In the Street," a short produced in 1952.

Foundation election

G. Albert Shoemaker, Pittsburgh business executive, has been elected to the Board of Directors of the Penn State Foundation by the Board of Trustees. His term is for five years, beginning July 1, and he succeeds H. Thomas Hallowell, Jr., of Jenkintown, who was not eligible for reelection.

Mr. Shoemaker, a 1923 graduate of Penn State, has been a member of the Board of Trustees since 1957 and is chairman of the Standing Committee of the Board on Endowments and Gifts.

faculty BULLETIN

Vol. 50, No. 47 June 21, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

GRANTS

W. I. Goldberg, physics, \$52,000, National Science Foundation, for studies of nuclear magnetic resonance and Mossbauer experiments.

B. A. Whistler, civil engineering, \$7,884, U. S. Public Health Service, for traineeship grant in sanitary engineering.

R. H. Essenhigh, fuel technology, \$94,592, U. S. Office of Naval Research, for studies in pyrolysis and combustion of hybrid rocket fuels.

C. R. Burnett, physics, \$19,000, N.A.S.A., for a study of warm plasma, the condensed hollow cathode discharge.

Arnulf Muam, metallurgy, \$15,875, Atomic Energy Commission, for thermodynamic properties of solid solutions at high temperatures.

M. E. Bell and others, Materials Research Laboratory, \$112,575, Atomic Energy Commission, for studies in high temperature materials phenomena.

A. H. Waynick, electrical engineering, \$299, Western Electric Co., gift of several transistors, relays, ammeters, voltmeters, etc.

J. C. Johnson, Ordnance Research Laboratory, \$850,000, Department of the Navy, for operation of the Laboratory.

Adam Anthony, zoology and entomology, \$3,400, U. S. Public Health Service, for studies of oxidase phosphorylation during cold adaptation.

Joseph Jordan, chemistry, \$832, National Science Foundation, for education allowance in support of science faculty fellow.

D. N. Jackson and **Sammel Messick**, psychology, \$15,628, U. S. Public Health Service, for stylistic determinants in personality assessment.

A. S. Hunter, agronomy, \$500, Pennsylvania Farm Bureau Cooperative Assn., for research on agricultural lime.

William Spackman, geology, \$1,000, Gulf Oil Corp., for publication of catalog of fossil spores and pollen.

C. E. Thurber, Institute for Public Administration, \$400,000, The Ford Foundation, for Peace Corps fellowship program.

MANUAL

A laboratory manual for elementary meteorology courses developed by Dr. Hans Neuburger and former graduate assistant George Nicholas has been distributed widely throughout this country and abroad. A total of 4,500 copies, prepared under a grant from the N.S.F., were made available to teachers free and were immediately requested.

AWARD

Dr. Maxwell H. Goldberg, associate director for humanities in C.C.L.E., was presented with an Award for Distinguished Service by the Associate Alumni of the University of Massachusetts. The citation cited his contributions to the university as student, teacher and department head of English for 34 years, and as the first Commonwealth Professor.

SHELTERS

Two one-day seminars and a special five-day course on Fallout Shelters in New Construction is being offered by Continuing Education in Philadelphia this summer, the first such programs offered anywhere in the country. They are pilot programs developed as part of The Shelter Research and Study Program of the department of architectural engineering, co-sponsored by the State Council of Civil Defense, Office of Civil Defense, Department of Defense, and Civil Defense offices in Bucks, Chester, Delaware, Montgomery, and Philadelphia counties.

ALUMNI FUND

As of June 21, 9,522 contributors had given \$270,446.93 to the 1963 Alumni Fund.

LIBRARY

Pattee Library will be open July 4 from 9 a.m. to 5 p.m., Librarian Ralph McComb has announced.

MOVIE

A 1920 film, "The Cabinet of Dr. Caligari," directed by Robert Wiene, of Germany, will be featured in the International Arts Film Program on July 4, in the HUB Assembly Room at 7 and 9 p.m. The film is concerned with murder, medieval witchcraft, vampires, etc. and is distinguished by the daring of the story within a story and the originality of its art decor: the setting is a bizarre combination of surrealism, art nouveau, expressionism, and cubism. The short subject is "Sausalite," which is a 1947 film.

Parking area

A parking area accommodating 218 cars will be constructed this summer in the area north of the Garfield Thomas Water Tunnel on west campus to relieve the problem created by the construction of the addition to Recreation Building and the expected start of construction of the Earth Science Building south of Mineral Sciences.

To replace the athletic fields which will be lost through construction of the parking area, new fields will be built northeast of the Park Ave. and University Rd. intersection.

Pavilion theatre

Ketti Fring's "Look Homeward, Angel," a prize-winning drama based on the late boyhood of novelist Thomas Wolfe, will be featured at Pavilion Theatre for two weeks beginning Tuesday, July 2.

First presented on Broadway in 1957, when the play received rave notices, "Look Homeward, Angel" was later awarded the Pulitzer Prize and the New York Drama Critics' Award. It is the story of a family of violent feelings and of a moonstruck youth struggling to become part of a world his family and environment shut out.

Esther Benson will play the mother, Eliza Gant, Leon Stevens will play William Gant, Lydia Bruce will be Madame Elizabeth, and Max Gulack will be Dr. Maguire.

Tickets may be reserved by calling the Pavilion Theatre box office, UN 5-6309, Tuesday through Saturday between 10 a.m. and 10 p.m. and Monday from 10 a.m. to 6 p.m.

NDEA institute

A series of foreign films and of lectures by outstanding speakers, which may be attended by all faculty and staff members, has been planned for the 1963 National Defense Education Act (NDEA) Summer Language Institute.

Twenty-two teachers of French and 22 teachers of Spanish in elementary schools from all parts of the country are taking part in this year's program which got underway this week.

The film program began yesterday (June 27) and will continue Tuesday, July 2, with "Marcelino, pan y vino," at 7:30 p.m. in Room 111 Boucke.

The first lecture will be given Thursday, July 4, at 8 p.m. in the Chapel Lounge, with M. Jacques Pouljol, assistant cultural attache, French embassy, speaking on "Le 4 juillet et le 14 juillet."

Children's drama

Registration is now in progress of children for the creative dramatics classes conducted each summer by the theatre arts department. It will be continued until July 5.

Classes will meet each Monday, Wednesday, and Friday from July 10 to Aug. 16 in the Little Theatre, Old Main. For children of the grades one through three, the classes will be held from 9:35 to 10:35 a.m.; for those in Grades four through six, they will be held from 11:10 a.m. to 12:10 p.m.

Registration must be by mail, giving the child's name and grade.

SENATE MINUTES

(Continued from last week)

REPORT OF COMMITTEE ON COMMITTEES

ACADEMIC STANDARDS—Hayes, J. R., Chairman; Kniffin, F. W., Vice Chairman; Austin, Deborah, Broderick, C. B., Campbell, W. P., Ford, D. H., Hyslop, F. E., Magnusson, Lucille, Pasto, J. K., Reen, C. G., Schmalz, R. F.

ADMISSIONS—Goodwin, H. E., Chairman; Bradley, J. F., Vice Chairman; Beittel, K. R., Burcik, E. J., Coulter, Myron, Decker, J. D., Dickerson, R. B., Polakowski, K. J., Powers, W. H., Stoddart, C. W., Jr., Riebel, L. Jeanne, Bernreuter, R. G., ex officio.

ATHLETICS—Wherry, R. H., Chairman; Perez, L. J., Vice Chairman; Hudson, G. R., Keith, M. L., Niebel, B. W.

CALENDAR AND CLASS SCHEDULE—Read, H. J., Chairman; Nelson, G. K., Vice Chairman; Reitsneider, R. D.; Snyder, Helen L., White, H. B., Miller, J. E., ex officio, Schwarz, Mark H. (Student), Sklar, Roslyn C. (Student).

COMMITTEES—Ridge, J. D., Bixby, P. W., Vice Chairman; Bortree, A. L.; Brewster, R. W., Fishburn, Hummel, Houghton, Dorothy, Perez, L. J., Schrader, W. J., Sykes, C. M., Wartik, Thomas.

CONTINUING EDUCATION POLICY—Hutchison, A. W., Chairman; John, M. E., Vice Chairman; Brown, H. S., Ferrara, W. L., Hager, C. F., Hall, F. T., Hunt, J. W., Knoll, Marjorie M., Thevaos, D. G., Valentine, Antoinette M., Weisman, W. R., Keller, E. L., ex officio, Larson, R. E., ex officio.

COURSES OF STUDY—Shelley, P. A., Chairman; Saylor, R. B., Vice Chairman; Ayres, Ruth W., Boyle, J. S., Coombs, F. M., Dixon, J. A., Free, G. J., Griffiths, J. C., Kountz, R. R., Walters, W. H., Rackley, J. R., ex officio, Schilling, H. K., ex officio.

EDUCATIONAL POLICY—Schanz, J. J., Chairman; Palladino, N. J., Vice Chairman; Brandow, G. E., Cook, F. H., Henderson, Grace, Magner, T. F., Noll, C. L., Sprague, H. B., Thiel, G. N., VanderMeer, A. W., Wilson, W. H., Rackley, J. R., ex officio.

FACULTY AFFAIRS—Pendered, N. C., Chairman; McClay, D. R., Vice Chairman; Adams, Martha, Colwell, R. M., Cunningham, R. G., East, Marjorie, Freund, E. H., Lewis, P. F., Smith, W. S., Wartik, Thomas, Zook, H. D.

LIBRARY—Lancaster, O. E., Chairman; Dickson, H. E., Vice Chairman; Blackadar, A. K., Gramer, M. B., Eiche, R. E., House, F. W., Lundegren, Herberta, Maw, A. J. G., Melton, A. W., Jr., Pollard, E. C., Schilling, H. K., Williams, A. L., Rackley, J. R., ex officio, McComb, R. W., ex officio, Osborn, E. L., ex officio.

MILITARY INSTRUCTION—Pashek, R. D., Chairman; Queer, E. R., Vice Chairman; Hassler, W. W., Hill, W. H., Kjelgaard, W. L., Kozak, A. V., Noll, C. L., O'Hara, J. J., Thompson, S. E., Wright, H. D., Cain, W. J., ex officio, Glenn, H. R., ex officio, Richie, E. B., ex officio, Schmidt, H. E., ex officio.

RESEARCH POLICY—Waynick, A. H., Chairman; Mueller, E. W., Vice Chairman; Almqvist, J. O., Ayoub, R. D., Gorlow, Leon,

Hotchkiss, Alida, Lawther, J. D., Raver, L. F., Richards, M. D., Stahl, C. D., Willow-er, D. J., Osborn, E. F., ex officio.

RULES—Whisler, B. A., Chairman; Waters, R. H., Vice Chairman; Buck, R. C., Cannahan, F. L., Goas, T. S., Bernreuter, R. G., ex officio.

SCHOLARSHIPS AND AWARDS—Durant, Della, Chairman; Tukey, L. D., Vice Chairman; Bissey, L. T., Chomickv, Y. G., Karhan, T. K., Lethbridge, B. B., Lovett, P. B., Riemer, Neal, Sommer, L. H., Tesi, A. F.

STUDENT AFFAIRS—Gray, A. R., Chairman; Asch, R. G., Vice Chairman; Hylbert, K. W., Maloney, R. C., Morgan, Winona, Rindone, Guy, Weidhass, E. R., Bernreuter, R. G., ex officio; Kniffin, F. W., ex officio, Jackson, George B., President, Undergraduate Student Government, ex officio; Caplan, Vicki, L., President, Association of Women Students, ex officio.

SUBCOMMITTEES OF THE COMMITTEE ON STUDENT AFFAIRS

ACADEMIC HONESTY—McCormick, B. W., Chairman; Cannahan, F. L., Vice Chairman; Hyslop, Lois B., Grace, Nancy Lee (Student), Maish, George O., Jr., (Student).

ORGANIZATION CONTROL—O'Brien, H. J., Chairman; McKinley, D. H., Vice Chairman; Black, Alex, Cartwright, Albert Jr. (Student), Krauss, Susan M. (Student), Donovan, G. L., ex officio.

DISCIPLINE—Asch, R. G., Chairman; Walmer, J. D. (Other members of committee as provided for under Article II, Sec. 1.0-3 of Senate By-Laws.

NOTE: All committees assume duties immediately following Commencement Day, June 9, 1963, (Article II, Sec. 3, Senate By-Laws).

Della Durant, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report for the information of the Senate which had been distributed at the meeting. She moved that the list of recipients for 1963-1964 be accepted. The motion was seconded and passed. The recipients are as follows:

LOUISE CARNEGIE—\$100

Bucher, Doris Jean, H Ec, 3.73; Burns, William Thomas, Phys, 3.75; Crawford, Lynn Janice, SecEd, 3.86; Estep, Phyllis Marie, Ed, 3.83; Feduska, Carol Ann, A & L, 3.87; Gershkoff, Diana Joan, Ed 3.85; Kuttii, Tiina Lee, AB Sc, 3.69; Moorhatch, Sandra Sylvia, EK Ed, 3.73; O'Brien, Thomas A., Chem, 3.90; Senior, Carolyn Elaine, L A, 3.81; Strum, Robert Clifton, Engr, 3.75; Teitelbaum, Lila Esther, A & L, 3.75.

CLASS OF 1921—\$200

Beck, Louise Ann, L A, 3.81; Duquette, Judith Irene, A & L, 3.94; Green, LaRue Kathleen, Coun, 1.00; McLaughlin, Mary Colleen, A & L, 3.75; Seidel, Sally Anne, Ag, 3.96.

CLASS OF 1920—\$100

Bucher, Doris Jean, H Ec, 3.73; Kuder, Susan Ruth, A & L, 3.60; Liszka, Edward George, E E, 3.71; McAdams, Katherine Frances, Arts, 3.63; Rose, Marsha, Journ, 3.71; Sedo, Carol Margaret, Ph Ed, 3.81; Smith, David Bryan, Metco, 3.63; Young, Victoria Ann, EK Ed, 3.65; Yurchak, Sergei, Ch E, 3.71.

FRED MERLIN KECKER MEMORIAL
Kramer, Brian Dale, Chem, 3.95, \$300.

CLASS OF 1922—\$100

Baumann, Madeline Katherine, Psy, 3.63; Bixler, Harry Nathaniel, A & L, 3.88; Caplan, James Alan, B A, 3.61; Harris, John Henry, L A, 3.83; Kelley, Russell Lynn, A & L, 3.75; Lipchak, Andrew John, Journ, 3.70; Meneghini, Kathleen Ann, Psy, 3.67; Miller, Edwin John, Ch E, 3.77; Moser, Judith Forbes, H Ec, 3.66; Tanner, Roger Lee, Chem, 3.63; Totten, Judith Marie, Sc, 3.66; Vancko, Robert Michael, A & L, 3.62.

GENERAL

Aufrecht, Josephine Kitty, A & L, 3.63, \$50; Benickes, Miles Lionel, L A, 3.80, \$50; Bixler, Harry Nathaniel, A & L, 3.88, \$100; Burgart, Calvin Edmund, E Sc, 3.75, \$50; Chatfield, Glen F., E Sc, 3.68, \$50; Crawford, Lynn Janice, SecEd, 3.86, \$100; Drake, Patricia Lee, L A, 3.73, \$50; Duquette, Judith Irene, A & L, 3.94, \$100; Frazee, Barbara Van, A & A, 3.65, \$50; Mastilak, Lisbeth Helen, L A, 3.62, \$100; Miles, Dorothy Ruth, H Ec, 3.87, \$50; Morris, Marsha Ann, Math, 3.86, \$50; Nagy, Douglas Daniel, Phys, 3.63, \$100; Neubert, Robert George, B A, 3.60, \$100; Ritzenberg, Rhoda, L A, 3.68, \$50; Schein, Lawrence Brian, E Sc, 3.69, \$50; Snyder, Nancy Jean, H Ec, 3.61, \$100; Tilley, Lynn Carol, H Ec, 3.74, \$50; Weiner, John, Chem, 3.73, \$50; Winters, Diana Pauli, Psy, 3.66, \$50; Wright, Jean Ellen, A & A, 3.86, \$50; Yarnell, Kenneth Ardell, Jr., E E, 3.76, \$100.

DONALD MacINTIRE MEMORIAL

Muka, Edward John, M E, 3.71, \$100.

GARNER ROTHROCK MEMORIAL—\$150

Davidson, Ronald Alex, Sec Ed, 3.72, \$150; White, Harold Bancroft III, AB Sc, 3.68, \$150.

CLASS OF 1941—\$125

Brown, Paul Andrew, A & L, 3.80; Hege-dus, Louis S., Chem, 3.78; Teitelbaum, Lila Esther, A & L, 3.75.

LAWRENCE J. OSTERMAYER—\$100

Angstadt, William Claude, Engr., 3.62; Brown, David Brooks, 2 EET, 3.69; Catalano, Kathleen Matilda, A & L, 3.65; Franz, Stephen Henry, E E, 3.67; Gulbinsky, Joseph Stephen, AB Sc, 3.63; Horan, Katharine Della, Ed, 3.65; Hughes, William Killmer, E E, 3.62; Letsch, Richard Curt, Mn I, 3.75; Lipchak, Andrew John, Journ, 3.70; Liszka, Edward George, E E, 3.71; Meneghini, Kathleen Ann, Psy, 3.67; McCauley, Alan David, Ag, 3.75; McQuaide, Arnold Chester, Jr., E E, 3.77; Olah, Lawrence Emery, Engr, 3.67; Rose, Marsha, Journ, 3.71; Sloane, Kenneth Alan, Engr, 3.64; Smith, Barbara Jane, EK Ed, 3.64; Travelet, Bonnie Lee, Ed, 3.81; Winters, Diana Pauli, Psy, 3.66; Yarnell, Kenneth Ardell, Jr., E E, 3.76.

BAYARD D. KUNKLE—\$250

Balderston, James Henry, Ag, 3.88; Bare, Thomas Michael, Chem, 3.65; Elbel, William Paul, G Sc, 3.83; Evans, Thomas Giles, B A, 3.71; Houseweart, George Wesley, E Sc, 3.64; Johnson, David Wilfred, Cer T, 3.87; Latanision, Ronald Michael, Metal, 3.65; Leair, William Eugene, B A, 3.88; Matos, James Edward, Phys, 3.65; Miller, Paul Howard, Psy, 3.89; Norris, John Lemoyne, Engr., 3.82; O'Hara, James Eugene, SecEd, 3.67; Peters, Dale Arthur, Math, 3.72; Polowchak, Van

(Continued on page four)

PERSONNEL MATTERS



Haffner

Warren R. Haffner, assistant registrar, has been named to fill the position held by Robert M. Koser as associate registrar, effective July 1. Koser has resigned to become director of educational services of Florida Atlantic

University, Boca Raton, Fla. A 1954 graduate of Penn State, Haffner was associated with I.B.M. from 1954 to 1957 except for military leave for two years when he was in the U. S. Air Force. He came to Penn State in 1957 and became assistant registrar in 1960 and in charge of registration in 1961.

* * *

Dr. Cyril F. Hager, assistant dean for continuing education in the College of the Liberal Arts has been named associate dean in recognition of the increasing importance of the program in continuing education in the College. He was appointed to the faculty in 1958, having served previously with the Foreign Service Institute of the U. S. State Department as assistant director of the educational planning staff and head of the senior officers course.

* * *

Dr. Ralph R. Ricker, associate professor of physical education, has been granted a leave of absence from Dec. 14 to June 13 to conduct studies and research in certain phases of 19th-century and early 20th-century history of physical education.

* * *

Dr. James B. Bartoo, head of the department of mathematics, will be on leave from January through June, 1964, to study in the field of mathematical statistics and to visit other universities to observe their programs in statistics.

* * *

Dr. and Mrs. Charles W. Cox will join the faculty at Mont Alto in September, he as associate professor of speech and she as assistant professor of English. Since 1959, Dr. Cox has been professor and chairman of the speech department at Westminster College. He is a graduate of Roanoke College and received the master of arts degree from Cornell and doctorate from Northwestern. He has also taught at Mary Washington College, Elon College, Shorten College, and Pfeiffer College. Mrs. Cox is a grad-

uate of Northwestern University and received both master's and doctor's degrees, the latter this month, from the University of Pittsburgh. She has taught in Virginia and Georgia high schools and has won six speaking contests in North Carolina and Virginia.

* * *

Mrs. Susan Ann Porterfield, who taught Spanish and French here from 1921 until her retirement in 1938, died June 17 at the age of 91. She was a 1923 graduate of Penn State and received her master's degree at the age of 56, in 1925.

* * *

Arnold Addison has been appointed administrative officer of the Institute for Science and Engineering, effective July 1 and will continue in his present position as personnel director of the Ordnance Research Laboratory.

* * *

Dr. Seymour Calvert, associate professor of chemical engineering and consultant on air pollution problems, will become director of the Center for Air Environment Studies and professor of mechanical engineering effective Aug. 1. He will coordinate campus-wide research and graduate study concerning the elimination or control of air pollution. He is a graduate of Michigan College of Mining and Technology and was granted advanced degrees by the University of Michigan.

NATO fellowships

About 15 fellowships for study abroad in the sciences will be awarded by the National Science Foundation in the North Atlantic Treaty Organization (NATO) Postdoctoral Fellowship Program in Science.

Awards will be made in the mathematical, physical, medical, biological and engineering sciences, and anthropology, geography, psychology (excluding clinical psychology), sociology (excluding social work), economics (excluding business administration), and the history and philosophy of science. Applicants must, by the anticipated beginning of the fellowship, have earned a doctoral degree in one of the listed sciences or they must have had research training and experience equivalent to that represented by the doctoral degree.

Applications and more detailed information may be obtained from the Fellowship Office, National Academy of Sciences—National Research Council, 2101 Constitution Ave., N.W., Washington 25, D. C. Applications must be received by Oct. 18, 1963 and awards will be announced Dec. 9.

NATO Fellows will receive \$5,500 for tenures of a full year and \$4,125 for nine months. Limited round-trip travel and dependency allowances will also be provided. Awards are not restricted to study in a NATO country and consideration will be given to those planning study elsewhere.

CALENDAR

Friday, June 28—Pavilion Theatre, "The Waltz of the Torcadors," 8:30 p.m. Concludes June 29.

Sunday, June 30—Chapel Service, 9 a.m., The Chapel. Alfred W. Melton, assistant professor of child development and family relationships, "On Being Honest with One's Self."

Tuesday, July 2—University Senate meeting, 3:55 p.m., Room 121 Sparks.

Tuesday, July 2—Opening of Pavilion Theatre production of "Look Homeward, Angel," 8:30 p.m. Continues until July 13.

Tuesday, July 2—NDEA Institute film, "Marcelino, pan y vino," 7:30 p.m., Room 111 Boucke.

Tuesday, July 2—Iota Alpha Delta meeting, 7:30 p.m., Dr. Helen L. Snyder, on "Methods and Philosophy of Research."

Thursday, July 4—NDEA Institute lecture by M. Jacques Poujol, assistant cultural attache, French Embassy, on "Le 4 juillet et le 14 juillet, comparaison et contraste," Chapel Lounge, 8 p.m.

Thursday, July 4—International Arts Film program, 7 and 9 p.m., HUB Assembly Room. "The Cabinet of Dr. Caligari," (1920) and "Sausalite," a short subject (1947).

Books

Vernon V. Aspaturian, professor of political science, is co-author of "Modern Political Systems: Europe," published by Prentice-Hall. Co-authors are Karl Deutsch, Yale University; Roy C. Macridis, Washington University; and Samuel E. Finer, University of Keele, England. It is a textbook for courses in comparative government, providing a systematic analysis and description of the political systems in Great Britain, France, West Germany, and the Soviet Union.

Charles C. Dillio, professor of mechanical engineering, and N. R. Sparks, professor emeritus, are authors of "Mechanical Refrigeration," the second edition of which the publishers, McGraw-Hill, recently permitted the Kogakusha Co. Ltd., of Tokyo, Japan, to publish and export a paper-back edition. Known as an International Student Edition, the paperback makes it possible for many foreign students, who otherwise could not afford the full textbook price, to own the book.

The seventh edition of two textbooks by **Dr. John H. Ferguson**, professor of political science, and **Dr. Dean E. McHenry**, chancellor of the University of California at Santa Cruz, has just been published by McGraw-Hill. The books are "The American System of Government" and "The American Federal Government."

Senate—

(Continued from page two)

Michael, Mn I. 3.77; Shaproski, William, Engr. 3.65; Sharpe, Merle James, Ed. 3.73; Stewart, William Warren, M. E. 3.95; Weychert, Lawrence Jules, A & L. 3.89; Whitson, Edward Richard, Engr. 3.83; Yocum, John Francis, Jr., AerSp. 3.88.

LT. HARRY EDWARD WAGNER—\$100
Burd, Samuel Dare, Jr., Ch E. 3.77; Crum, Marlin William, Jr., AerSp. 3.09; Grossi, Lewis George, Jr., Sc. 3.56; Hackman, Robert Elwood, I E. 3.63; Keefer, Marlin Eugene, AerSp. 3.18.

SCHOOL ADMINISTRATORS—\$200
Blackburn, Robert Dale, Metal. 3.59; Boettjer, Siegfried Erich, Sec Ed. 3.61; Brown, Vicki Kay, Mu Ed. 3.67; Degyansky, Milan Eugene, C E. 3.74; Edgein, Kenneth Raymond, E E. 3.61; Griffin, Joseph Charles, C & P. 3.75; Knecht, Karl Marten, L A. 3.61; Miller, Richard Curtis, Sec Ed. 3.70; Mucci, John Francis, Phys. 3.91; Nagy, Douglas Daniel, Phys. 3.63; Womer, William Joseph, A & L. 3.80; Zahradnik, Robert Thomas, C & P. 3.78.

PHILIP C. McCARTY

Smith, Linda Lee, Ed. 3.86, \$140.

PHI KAPPA PHI

Herbert, Marian G., A & L. 4.00, \$200.
ESPY

Lieb, Mary Jane, SecEd. 3.26, \$150.

YANCE C. McCORMICK

Morris, Marsha Ann, Math. 3.86, \$150.

HELEN WOOD MORRIS

Mooney, Stephanie Katherine, L A. 3.87, \$62.50; Paul, Barbara Carol, SecEd. 3.80, \$62.50.

JOHN W. WHITE

Aquilina, Charles Joseph, P M. 3.83, \$150; Beyerle, Barbara Ann, H Ec. 3.95, \$200; Tomlinson, Alan Lee, Engr. 3.75, \$100.

MARY THOMPSON DALE

Bradley, Isabelle Jane, A Ed. 3.57, \$100.

UNFINISHED BUSINESS

Mr. Shelley presented the report which had been distributed with the agenda as Appendix "G" regarding MINIMUM ACA-

DEMIC REQUIREMENTS FOR THE UNIVERSITY HONORS PROGRAM. This report had been distributed to the members of the Senate at the May meeting for information and discussion. The report was in two parts. He moved adoption of the revised statement appearing as Item I and also of the proposal designated at Item II. The motion was seconded and passed. The proposals are as follows:

I. Minimum Academic Requirements for the University Honors Program

1. In order to be eligible for participation in an Honors program a student must have at least fourth term standing and have attained either a cumulative grade point average of at least 3.00 or an average of 4.00 in courses constituting the major field of study in which the Honors program is to be taken. Participation in the Honors program is at the invitation of the appropriate Honors committee.
2. An Honors student must maintain a cumulative grade point average of 2.50 in order to remain in the Honors program.
3. In order to qualify for an Honors diploma the student must complete twelve (12) credits of Honors work. These twelve (12) credits are to be part of, rather than in addition to, the minimum requirements for graduation.
4. Of the twelve (12) credits of Honors work not fewer than six (6) are to be assigned to courses designed specifically for, and open only to, students officially enrolled in an Honors program.
5. Of the twelve (12) credits of Honors work not fewer than three (3) or more than six (6) are to be devoted to an undergraduate Honors thesis. Such a thesis should be a scholarly written report and may be based upon a project. (The undergraduate Honors thesis itself is defined as gen-

erally as possible, so that "a scholarly written report" upon a project may be thus considered, so long as it represents individual investigation or creation (e.g., in art, music, theatre arts, etc.) under the personal supervision of a thesis director and shows originality in content and/or organization.)

6. Each student must take and pass a comprehensive examination administered by the Honors committee.

- II. Within three years all courses designated as Honors courses must be part of a formally approved Honors program. Otherwise they will no longer be designated or described as Honors courses or they will be dropped.

The complete report is on file in the office of the secretary.

Mr. Josephson asked that the recommendation of the Senate COMMITTEE ON COMMITTEES which had lain on the table since last month be removed and acted upon at this time. He moved that the recommendation of the Committee

that the nonvoting student member now provided for under Article II, Section 1, 0-3B of the By-Laws be removed from this group and included in the voting membership under Section 1, 0-3A.

be adopted and that it be referred to the Senate Committee on Rules for proper changes in the By-Laws. The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

R. E. Smith made a plea for the continuation of compulsory R.O.T.C. training at the University.

The next regular meeting of the Senate will be on July 2, 1963; the agenda will be distributed on June 18, 1963. The meeting adjourned at 4:30 p.m.

Robert G. Bernreuter
Secretary

faculty BULLETIN

Vol. 50, No. 48 June 28, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Student Attitude

(Twelfth of a series)

Attitudes of students concerning the Library and other physical facilities of the University were sought in a series of 12 questions asked in the Student Affairs Research administered survey last year. All the questions were answered by "strongly agree," "agree," "disagree" and "strongly disagree."

Library

No. 1—"In general, I think that the Penn State students are unhappy about the library facilities."

Total—Strongly agree, 27%; agree, 39%; disagree, 31%; strongly disagree, 3%. Total agreement, 66%.

Variables—total agreement for GPA-1 students (averages 0-1.4) was 39%; for GPA-6 students (3.5-4.0 averages) 77%. By College, the range of agreement was from 84% (Physical Education) to 38% (DOC). Agreement of men was 59%; of women, 81%.

No. 2—"I personally feel that all of the libraries at Penn State should be under one roof."

Total—strongly agree, 8%; agree, 20%; disagree, 20%; disagree, 55%; strongly disagree, 17%.

Variables—there was no majority agreement in any of the variables. Variation by College was 15% for Engineering to 41% for Education.

No. 3—"I usually can get the books that I want from Pattee Library."

Total—strongly agree, 3%; agree, 44%; disagree, 35%; strongly disagree, 18%.

Variables—highest agreement of GPA groupings was 65% by GPA-1 and lowest agreement was 37% for GPA-5. Range of agree-

(Continued on page two)

Curtis quartet

The Curtis String Quartet — composed of Meli Mehta and Jascha Brodsky, violins, Max Arnoff, viola, and Orlando Cole, cello — will begin its summer series of concerts Thursday, July 11, and will give other programs Tuesday, July 16 and Wednesday, July 24.

One of the country's best-loved string groups, the Curtis String Quartet is spending its second summer in residence here, sponsored by the department of music, the Artists Series, and Student Activities office.

Members of the quartet will coach string ensembles and teach a number of qualified musicians in connection with the Band, Orchestra, and Chorus school during their stay.

The concerts, all open to the public, will be held in Schwab Auditorium beginning at 8 p.m.

Meeting planned

A meeting of all interested faculty members will be held Wednesday, July 10, at 8 p.m. in Room 121 Sparks for the purpose of discussing the further development of undergraduate liberal education at Penn State, with particular reference to the problems related to the new organization of "core" colleges.

Dr. H. K. Schilling, dean of the Graduate School, will be moderator for the meeting, at which a proposal for the formation of a faculty for undergraduate liberal education will be one of the subjects discussed. The entire faculty is invited not only to attend but to enter into the discussions.

NDEA program

The NDEA Summer Language Institute program for the coming week will include the movie, "Si Versailles m'était conte" Thursday, July 11, at 7:30 p.m. in Room 111 Boucke, and a talk by Dr. Harvey L. Johnson, Indiana University. He will speak on "Contrastes culturales Latino-Norteamericanos" in the Beam Hall lounge, Tuesday, July 9, at 8 p.m.

Construction

Contracts have been let for the construction of a radio-astronomy building to be built on the University farms two miles northwest of the main campus. Construction, which will start immediately, is expected to be completed before the end of the year.

A grant of \$227,800 by the National Science Foundation has made possible the construction of the building which will be adjacent to the new radio telescope. Radio astronomy is under the direction of Dr. John P. Hagen.

Pavilion theatre

"Look Homeward, Angel," the Ketti Fring's drama of the late boyhood of novelist Thomas Wolfe, will continue at Pavilion Theatre until July 13. Curtain time is 8:30 p.m. Tuesday through Saturday.

The story involves the mother's drive for money and security, the father's dreams, the invalid son and the other son who escaped the Gant boarding house in a small North Carolina town in 1916.

In addition to the featured players — Esther Benson, Leon B. Stevens, Lydia Bruce, and Max Gulack — the cast will include Basil Augustine, Art Sokolove, Christy Werner, Luke Sickles, Natalie Weyand, Joanne Beegle, James Andrews, Olivia Jones, Trish Archer, Fred Guinn, Mary Miller, and Clark Robinson.

SCHEDULE CHANGE

A minor revision in the scheduling of material for the Faculty Bulletin has been made to facilitate printing deliveries. Copy of a major nature will now have a deadline of Monday noon; events to be listed in the calendar may continue to be submitted as late as 5 p.m., Monday.

TEACHERS

Sixty secondary teachers from 14 states are enrolled in the Summer Institute for Secondary Teachers of Science, a program sponsored by the National Science Foundation to help science teachers keep up-to-date with the developments in their field. Several Pennsylvania industries have also provided funds for scholarships to the teachers attending, among them the Pittsburgh Plate Glass Co., and the Sun Oil Co.

TIROS

Dr. Hans Panofsky, professor of meteorology, will use data from Tiros satellites to study whether infra-red data recorded by the satellites can be used to provide information on air conditions in the troposphere. A grant by the Weather Bureau is making the study possible.

MOVIE

The last of the French major movie productions before the depression, "Le Million," directed by Rene Clair in 1930, will be the feature of the summer International Arts Film Program Thursday, July 11, at 7 and 9 p.m. in the HUB assembly room. The story revolves around a penniless Bohemian to whom salvation depends in winning a lottery. The short subject, made in 1949, is "Images Medievales," portraying life in the middle ages.

PLACEMENT

Only 56 per cent of the Penn State graduates who have been certified to teach during the past year will actually teach in Pennsylvania schools, R. H. Amaloug, director of teacher placement, says. About 31 per cent will teach in other states, and still others will accept other non-teaching jobs, go into the service, foreign service, or the Peace Corps.

GRANTS

L. N. Mulay, Materials Research Laboratory, \$5,000, Paint Research Institute, for magnetic studies of adsorption on titania, alumina, etc., subjected to high temperature treatment.

B. F. Howell, geophysics and geochemistry \$25,388, U. S. Air Force, for model study of effect of depth of focus on the shape of the first pulse from a seismic source.

G. W. Brindley and Rustum Roy, Materials Research Laboratory, \$30,700, American Petroleum Institute, for hydrothermal and structural studies of minerals.

R. W. Lindsay, metallurgy, \$800, Reynolds Metals Co., for Cooperative Program in Metallurgy.

F. R. Axelson, political science, Penna. State Library, \$15,000, to study needs of potentials of college, university, and research libraries in the State.

W. H. Powers, chemistry and physics, \$2,000, Pittsburgh Plate Glass Foundation, for summer institute for high school science teachers.

Thomas Wartik, chemistry \$3,000, American Cyanamid Co., for instruction programs in the chemistry department.

F. A. Hummel, ceramic technology, \$6,692, General Electric Co., for research in mineral synthesis of phosphors and fluorescent materials.

Joseph Marin, M. G. Sharma, and V. H. Neubert, engineering mechanics, \$20,266, U. S. Army Research Office, for studies of dynamic stress-strain behavior of materials.

Joseph Jordan, chemistry, \$28,984, U. S. Atomic Energy Commission, for research in electrochemistry and thermochemistry in fused salts.

William T. Sanders, anthropology, \$22,300, National Science Foundation, for studies of prehispanic settlement patterns of Teotihuacan.

F. A. Wood, plant pathology, and **R. J. Hutnik**, forestry, \$12,000, Penna. Dept. of Agriculture, for oak wilt research.

H. W. Dunne, veterinary science, \$23,000, Penna. Dept. of Agriculture, for large animal diagnostic service.

Stephen Gordeuk, veterinary science, \$17,500, Penna. Dept. of Agriculture, for poultry diagnostic laboratory.

Dean Asquith, Arendtsville, \$500, Hercules Powder Co., for research on mites and insects.

F. H. Lewis, Arendtsville, \$600 FMC Corp., for studies of deciduous fruit.

F. H. Lewis, Arendtsville, \$500, Stauffer Chemical Co., for fruit disease research.

Dean Asquith, Arendtsville, \$750, Union Carbide Chemicals Co., for fruit insect research.

J. O. Almquist, dairy science, \$14,400, Penna. Assoc. of Artificial Breeding Cooper-

atives, for research in physiology of reproduction.

V. H. Neubert, engineering mechanics \$20,000, Office of Naval Research, on shock analysis of structural networks.

Oscar Spencer, correspondence instruction, varied amounts, U. S. Armed Forces Institute, for partial costs of enrollment of military personnel in correspondence courses.

M. K. Davis, Altoona, \$5,600, Penna. Dept. of Public Welfare, for instruction of student nurses at Philipsburg State Hospital.

J. J. Coyle, commerce and management, \$17,100, U. S. Fish and Wildlife Service, for study of fishery products from Alaska to existing and potential domestic markets.

P. H. Given, fuel technology, \$4,500, Cabot Corp., for study of surface oxygen groups on carbon black.

B. M. Siegenthaler, Speech and Hearing Clinic, \$33,430, U. S. Office of Education, for program of training teachers of the deaf.

P. W. Bixby and H. E. Mitzel, education, \$61,550, U. S. Office of Education, for a study of the new media and the role of the campus school in American education.

A. W. Knott, continuing education, \$14,830, U. S. Office of Civil Defense, for one-day conference and one-week courses in shelter design and construction.

E. W. Mueller, physics, \$22,120, U. S. Air Force, for investigations of iron whiskers by field ion microscopy.

Summary

A third of the total respondents think Penn State's library is comparable to those of universities of comparable size. Two-thirds think students are unhappy about the library facilities. Only 40% think Pattee Library is a good, quiet place to study. Slightly fewer than half "can usually get the books," they want. Students are apparently aware there is a loss of books and agree that something should be done about it in the way of better regulations and control. And, finally, there does not seem to be a strong desire to have all libraries housed under one roof, instead of continuing the various branch libraries.

It is interesting to note that the high achievers (GPA-5 or 6) express much stronger feeling that students are unhappy about the library facilities; they indicate that they have more trouble getting the books they want than do low achievers; and they much more strongly disagree with the statement that Pattee Library is a good, quiet place for serious study.

Other Facilities

No. 1—"I personally am very unhappy with the physical layout of this campus."

Total—combined agreement was only 22%. **Variable**—agreement was well below 40% in all categories.

No. 2—"In general, the physical facilities at Penn State are adequate."

Total—combined agreement, 69%.

Variables—total range of agreement across all the variables was from 56% to 77%.

No. 3—"I find that there is really no good quiet place to study on this campus."

Total—combined agreement was 27%.

Variable—Only GPA-6 group (highest achievers) varied greatly from average, 44% indicating agreement.

No. 4—"The advantage of meeting many different kinds of people overshadows any disadvantages of attending a large university."

Total—combined agreement was 59%; for the sub-category College, agreement ranged from 43% (Mineral Industries) to 74% (Home Economics).

No. 5—"The large size of Penn State is good because it allows the University to offer many and varied courses."

Total—combined agreement was 91% and the variables showed only slight differences from Total.

No. 6—"The large size of Penn State contributes to a broadening of a student's education."

Total—combined agreement, 78%.

Summary

There is general agreement that the physical facilities at Penn State are adequate. There is also general agreement that Penn State's size is an advantage when it comes to: meeting many different kinds of people; offering many and varied courses; contributing to a broadening of a student's education.

Survey—

(Continued from page one)

ment by College was from 64% (DOC) to 33% (Home Economics).

No. 4—"There is a need for better regulations and control at Pattee Library to help prevent the loss of books."

Total—strongly agree, 26%; agree, 53%; disagree, 19%; strongly disagree, 2%.

Variables—no great differences from Total Response.

No. 5—"Pattee Library is a good, quiet place to go for serious studying."

Total—strongly agree, 2%; agree, 38%; disagree, 40%; strongly disagree, 20%.

Variables—Agreement ranged from 74% for GPA-1 (low achievers) to 38% for GPA-6 (average 3.5-4.0), but there was not a clear-cut relationship between GPA and agreement percentage. By College, agreement ranged from 24% for Home Economics to 60% for DOC.

No. 6—"Compared to other universities of comparable size, Penn State has a good library."

Total—strongly agree, 2%; agree, 31%; disagree, 40%; and strongly disagree, 27%.

Variable—in none of the sub-categories was there a majority agreement. GPA groupings ranged from 20% to 45% agreement; range of Year was from 25% for sophomores to 43% for freshmen; range of College was from 22% for Home Economics to 48% for DOC.

ITEMS OF INTEREST

The Arts

- ALTMAN, HAROLD, art, a one-man exhibition of paintings, prints, and drawings at the New Arts Gallery, Atlanta, Ga.
- ALTMAN, LINDA, art, exhibition of two prints at the Auburn University Second National Print Exhibition; also a print in the Hanover College Arts Festival First National Print Exhibition.
- RAVER, LEONARD, music, recital of contemporary organ music before the Hartford chapter, American Guild of Organists regional convention at New Britain, Conn.

Elected and Appointed

- ANDERSON, J. M., philosophy, elected president of the Western Pennsylvania Philosophical Society for 1963-64.
- CAMPBELL, R. A., engineering graphics, appointed to serve on the Teaching Techniques Committee, Engineering Graphics Division, American Society for Engineering Education.
- CONNOLLEY, E. J., Continuing Education, elected vice president of the Eastern Pennsylvania chapter, American Society of Training Directors.
- DELISSOVY, VLADIMIR, child development and family relationships, elected to the Board of Directors of the National Council on Family Relations.
- FERGUSON, J. H., Institute of Public Administration, elected chairman of the Council of University Bureaus of Government Research.
- LECZAR, F. J., physics, elected member of the Polish Institute of Arts and Sciences in America.
- MINDER, T. L., Engineering library, appointed a member of the Technical Book Review Index Committee of the Special Libraries Association.
- PENDERED, N. C., industrial education, appointed to a three-year term as National Chairman of the Safety Education Committee, Industrial Arts Division, American Vocational Association and membership on the Safety Education Committee of the American Vocational Association and the Joint Committee on Safety of the A.V.A. and the National Safety Council.
- RIEMER, NEAL, political science, invited to attend the Ninth National Conference of the U. S. National Commission for UNESCO, in Chicago, Oct. 23-26.
- WINTER, W. P., industrial engineering, named chairman-elect, Education Division, American Foundrymen's Society.
- ZIEGLER, M. J., UDIS, appointed editor of a column, "Production Forum" in the bi-monthly Journal of the National Association of Educational Broadcasters.

Articles and Papers

- FREUND, E. H., philosophy, translation of an English edition of Karl Barth's "The Great Promise," published by the Philosophical Library.
- GLANTZ, P. J., bacteriology, "Simplified Tube Method for Preparation of H Antigens," in the April issue of the Journal of Bacteriology.
- GROOMS, R. R. and OSROW, S. H., DOC,

"The Effects of Experimentally Controlled Verbal Chains on Word Associations" at Eastern Psychological Association meetings in New York.

HU, L. W., and SHULL, H. E., engineering mechanics, "Load Carrying Capacities of Simply-Supported Rectangular Plates," at the National Applied Mechanics Conference of the A.S.M.E. June 24 at Cornell University.

KLAUS, E. E., Petroleum Refining Laboratory, "New Developments in Liquid Lubricants," at the Eighth Annual Design Engineering Conference and Show, sponsored by the Machine Design Division of the American Society of Mechanical Engineers, in New York.

OLIVER, R. T., speech, "One Hundred Years of Teaching Speech: An Interpretation," in the Sept. 1962 issue of "The Speech Teacher."

SMITH, W. S., theatre arts, "Thomas Davidson and the New Life Fellowship," in the May 15 issue of The Christian Century, in the fifth of a series in The Victorian Heretics.

TEST, A. F., clothing and textiles, co-author of a comprehensive article on acetate and triacetate fibers in the second edition, Volume I, Encyclopedia of Chemical Technology.

THURRING, G. L., and HAM, INYONG, industrial engineering, "Machine Tool Forces and Flank Adhesion" and "Effect of Cutting Conditions on Plant Adhesion" published in the Transactions of the Japan Society of Mechanical Engineers, Tokyo, Japan.

Lectures

- BELASCO, SIMON, Romance linguistics, course lectures in the history of the French language and the introduction of Romance linguistics in the program of the Institute of linguistics at Seattle, Wash., June 24 to Aug. 23.
- BOWMAN, J. D., industrial engineering, a two-week automation course at the Western Electric Co., New York, for 18 department chief engineers.
- GAGE, M. GERALDINE, family economics, three talks on the development of concepts in family economics and home management at Fort Collins, Colo., for the Colorado Vocational Association.
- GATES, RUTH E., clothing and textiles, "Sociological Factors Influencing Clothing Behavior," for a research colloquium sponsored by the Louisiana State University.
- HALL, F. T., JR., Engineering, convocation speech at Behrend Campus.
- HENDERSON, GRACE M., Home Economics, "Contributions of Home Economics to Family Living in 50 Years," for a three-day conference at Purdue University.
- KAFKA, ANDREW, English at Hazleton, "The Effective Use of the Dictionary in Teaching Reading," at the annual conference of the reading teachers at the Reading Center.
- KLAUS, E. E., Petroleum Refining Laboratory, "New Processing Techniques Involved in the Preparation of Super-Refined Mineral Oils," to the staff of the technical service laboratory of Union Carbide Chemicals Co., Tarrytown, N. Y.
- LAMPE, F. W., chemistry, at the Humble Oil and Refining Co.'s research Seminar at

Baytown, Texas; at the University of Texas; and before the American Chemical Society Symposium on Applied Kinetics, at Houston.

MASTALERZ, J. W., floriculture, "New Ideas for Cut Flowers" and "Greenhouse Soil Mixtures for Producing Quality," at the 16th annual Commercial Flower Growers Short Course at North Carolina State College.

MONAR, W. R., Institute of Public Administration, "Some Unfinished Business of the American Revolution" as the commencement address at Virginia Junior College in Minnesota.

NIELLY, V. E., continuing education in engineering, "Certification of Engineering and Chemical Technicians" at the Wyomissing Center assembly on May 15.

WARTIK, THOMAS, chemistry, "Certain Aspects of the Chemistry of Organoboron and Organoaluminum Compounds," before a seminar of the chemistry department of Cornell University.

WILLIAMSON, M. A., Engineering, "Educational Trends in the Training of Engineering Personnel," at the Central Pennsylvania Conference on Better Utilization of Engineering Technicians by Industry, in York.

ZILKO, H. P., speech, on various aspects of communication at a conference on Personnel Management conducted by the Department of the Army in Washington, D. C.

CALENDAR

- July 5—Pavilion Theatre production of "Look Homeward, Angel," 8:30 p.m. Concludes July 13.
- July 5—Outdoor movie, HUB lawn, 9 p.m.; Rec Hall in case of rain.
- July 6—Square Dance, 9-12 p.m., HUB ball room.
- July 7—Chapel Service, 9 a.m., The Chapel. Maj. Gen. Charles W. Christenberry, on "Ye Shall Know the Truth and the Truth Shall Make You Free."
- July 8—Summer Student Sing (open to all), directed by Hum Fishburn and Frank Gullo, 8 p.m., Schwab.
- July 8—Bridge Club, 7 p.m., HUB card room.
- July 9—NDEA Summer French Institute lecture by Dr. Harvey L. Johnson, Indiana University, on "Contrastes culturales Latino-norteamericanos," Beam Hall, 8 p.m.
- July 11—International Arts Film series, "Le Million," (1930) and short, "Images Medievales" (1949), 7 and 9 p.m., HUB assembly room.
- July 11—NDEA film, "Si Versailles m'etait conte," 7:30 p.m., Room III, Boucke.
- July 11—Concert by Curtis String Quartet, 8 p.m., Schwab.
- July 12—Interlandia Folk Dance, 7:30 p.m., HUB Ball Room.
- July 12—Outdoor movie, 9 p.m., HUB lawn; Rec Hall in case of rain.

GRADUATE SCHOOL

The scheduled meeting of the Graduate School faculty for July 16 has been cancelled.

Benefits program rates high

(This is the first of a two-part article on employee benefits)

A SURVEY of 12 major universities indicates that each has a tailor-made program of "fringe benefits" for its academic staff members, and that Penn State compares favorably with the others in the benefits program.

The universities cooperating in the study, which was made primarily to aid in developing employee benefit plans, were the University of Chicago, Columbia University and Teachers College, Cornell, Harvard, Massachusetts Institute of Technology, New York University, Pennsylvania, Princeton, Stanford, Yale, and Penn State.

"Direct comparisons of the value of the various benefit programs are difficult to make," says Dr. J. R. Rackley, vice president for resident instruction, "but our program is as progressive and thorough as the best among these universities, it appears to me. In some cases, the feature adopted by the institution may be forced on it, by circumstances not of its own choosing. For example, only two of the universities have state-aided retirement plans and the others had to develop their own. Evaluations of each of the features of the benefits programs should be made in this context."

The benefits studied were retirement, life insurance, medical care, disability benefits, tuition aid for employees and dependents, sabbatical leaves, and some other minor categories.

Retirement Plans

Penn State and Cornell are members of state retirement programs; two other universities have developed their own plans; and eight are mem-

bers of TIAA (Teachers Insurance and Annuity Association) and CREF (College Retirement Equities Fund).

At Penn State, the amount the employee and the State pay into the retirement fund depends on the sex of the employee and the age at which he enters the system, ranging from 3.73 per cent of base salary for a male employee entering at age 20 to 9.77 per cent for a female entering at age 59.

At most of the TIAA-CREF member institutions the employee pays five per cent of his salary and the institution pays from 5 to 15 per cent into the fund. Harvard University, which has its own retirement plan, pays all the expense of the plan, the amount depending on age and past service, varying from 12½ to 20 per cent of the base salary. M.I.T. also has its own plan; employees pay five per cent and the institution plays 10 per cent.

Under the State plan to which Penn State belongs, retirement payments approximate two per cent of the base salary for every year of employment; the base salary being the average of the highest five years of earnings. Benefit payments under TIAA depend, of course, on the monthly

amounts paid into the funds and are based on a standard TIAA scale. Harvard's scale is similar to that of TIAA and M.I.T.'s is based on accumulated payments into the institution's own plan.

All of the universities have Old Age and Survivors Insurance (Social Security) in addition to a retirement system.

Beneficiaries of Penn State employees who die before retirement (but who have been in the retirement system at least ten years) receive the money contributed by the employee and a State-share plus four per cent interest on the employee's share. (The employee's beneficiary may elect to receive an annuity rather than a lump sum if the amount in the employee's account is over \$5,000.)

TIAA programs provide to beneficiaries of employees who die before retirement the accumulated premiums paid in by the member university and by the employee. No interest on these funds is paid, however.

TRAVELING?

Faculty and Staff members who plan to travel to distant parts of the United States on business or pleasure and who would care to assist in alumni and University relations by speaking before alumni groups are requested to notify the Alumni Office, 104 Old Main, of their travel plans. The Alumni Association receives many requests for visits by University personnel willing to bring news of current developments. Interested alumni groups may be found in such cities as Honolulu, San Juan, Los Angeles, San Francisco, Phoenix, Tucson, Denver, Minneapolis, St. Louis, Chicago, Houston, Dallas, Atlanta, Miami, Tampa, Richmond, Boston, Detroit, etc.

faculty BULLETIN

Vol. 51, No. 1 July 5, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Behavior institute

A series of lectures open to the general public on the subject of animal behavior will be held during the Summer Term as part of the Summer Institute in Animal Behavior, of which Dr. Martin Schein, associate professor of animal behavior, is director.

The Institute, made possible by a National Science Foundation grant of \$45,400, is designed for college teachers of biology and the life sciences.

Speaker for July 16 is Dr. V. G. Detchier, zoology professor at the University of Pennsylvania, speaking on the subject, "Perception in Invertebrates." The lecture will be held in Room 214 Boucke at 8 p.m.

Other speakers in the series include Dr. L. R. Aronson, American Museum of Natural History, New York (July 23); Dr. W. A. Mason, Yerkes Laboratory of Primate Biology in Florida (July 25); Dr. W. C. Dilger, Cornell University; Dr. E. H. Winn, University of Maryland.

Also, Dr. B. E. Ginsburg, University of Chicago; Dr. Philip Teitelbaum, University of Pennsylvania; and Dr. Mortimer Mishkin, National Institute of Mental Health.

Linguistics lecture

Dr. Nelson Brooks, of Yale University, will lecture on "Linguistics and the FLES Teacher" today (Friday) at 8 p.m. in Room 9 Sparks. This is part of the NDEA Summer Language Institute program but the lecture is open to anyone interested.

Nicolet named Guggenheim winner

Dr. Marcel Nicolet, noted Belgian scientist who spends several weeks each year at the University's Ionosphere Research Laboratory as research scientist and supervisor of graduate students, has been awarded a Guggenheim Prize by the International Academy of Astronautics.

The prize, which includes a check for \$1,000, was granted for Dr. Nicolet's discovery of the presence of helium in the upper atmosphere. The discovery of the helium "belt" in the region 700 to 2200 miles above the earth is considered one of the most important in upper atmosphere physics in the last decade.

Dr. Nicolet's discovery resulted from a study of drag on the ECHO-1 satellite. The unaccountable atmospheric drag was pulling the satellite from its theoretical orbit in the regions where it was thought that the atmosphere contained only hydrogen. Since helium is twice as heavy as hydrogen, it was postulated that the drag could be the result of the presence of helium and further study convinced Dr. Nicolet of the fact. The layer varies in height and thickness with temperature and solar sunspot activity. Sensors in the Explorer VIII satellite and rocket probes confirmed his findings.

Earlier, Dr. Nicolet had calculated the atmospheric content of helium produced in the radioactive decay of uranium and thorium in the earth during the past 50 million years and computed the capacity of the atmosphere to hold helium.

Dr. Nicolet is director of the Belgium National Center for Space Research in Brussels. He served as director general of the International Geophysical Year and is a member of directorate of COSPAR.

New Kensington

Plans for the development of the New Kensington Center, outlining three categories of construction as funds become available, have been approved by the Board of Trustees.

The new campus will be located in a 35-acre tract four miles east of New Kensington and will be convenient for students from Allegheny, Armstrong, Beaver, Butler, Indiana, and Westmoreland counties. The tract was deeded to the University by the Aluminum Company of America.

Development of the new campus will provide for an initial enrollment of 400 full-time students with an increase to 1,000 by 1970.

A fund-raising campaign to finance the building program is expected to get underway next year. In the plot plan approved by the Trustees were academic and office buildings; student union, dining hall and residence halls; and gymnasium and athletic fields.

Benefits

(Second of a two-part article)

Life Insurance

Eligibility, payments, benefits, and other provisions of the life insurance plans at the several universities show much variation. Eligibility for life insurance at Penn State starts immediately on employment; at some institutions eligibility is delayed for three, six, or twelve months.

Penn State employees pay a premium of 60 cents per thousand per month; the University shares the total cost. At one university the employee pays nothing; at others, the amount paid by the employee varies up to 65 cents per thousand per month. In several cases, the premium on the first \$1,000 to \$1,500 is paid by the university and the balance by the employee.

The maximum face value of group insurance for a Penn State employee is limited to \$40,000 by Pennsylvania law, but the gradation (the amount depending on the salary) is a University policy, as it is in a number of other universities. However, the amounts at the several institutions vary widely; at one the minimum is \$1,000 and the maximum is \$5,000. At several, the maximum is \$40,000 and the principal might be as much as \$20,000 additional for accidental death or dismemberment.

One of the more distinctive features of the Penn State plan is the continuance of life insurance after retirement, up to a maximum of \$10,000 for employees joining before May 1, 1954, and up to \$5,000 for those hired after May 1, 1954 (but not more than half of the face amount before retirement). At three universities, no provisions are made for continuance; at others a paid-up policy of up to \$2,000 is provided for those having certain minimum lengths of service. Still others make available term insurance which reduces in amount each year between ages 65 and 70 until the principal is \$1,000 or none.

Medical Care

Hospitalization and surgical-medical services outside the area of major medical care are provided in a great variety of ways. At Penn State, the

(Continued on page four)

SENATE MINUTES

Meeting of July 2, 1963

The University Senate met at 3:55 p.m. on Tuesday, July 2, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the June 4, 1963 meeting were approved as printed in the Faculty Bulletins for June 21 and 28, 1963. One hundred eighteen senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (L. A. Richardson), R. C. Buck (Max Goldberg), E. G. Buss (E. B. Hale), R. G. Cunningham (C. E. Chevalier), Della Durant (G. A. Stull), H. E. Goodwin (R. M. Pockrass), R. L. Grube (R. E. Kummer), G. R. Hudson (A. M. Wellington), T. K. Karhan (G. W. Henninger), R. W. Lindsay (W. R. Bitler), E. L. Matil (George Pappas), B. W. McCormick, Jr. (J. J. Eisenhuth), J. K. Pasto (R. H. Stauffer), F. W. Peikert (H. D. Bartlett), N. C. Pendered (J. M. Shemick), and A. F. Tesi (Barbara Densmore).

New Senators

A letter was read from P. W. Bixby, Assistant Dean of the College of Education stating that N. C. Pendered and F. W. House had been elected to complete the unexpired terms of B. E. Voss and C. J. Schaefer.

A letter was read from Ben Euwema, Dean of the College of the Liberal Arts, that Lois Hyslop would serve as acting head of the Department of French, effective July 1, 1963 and until such time as a head of the department can be found.

A letter was read from Mr. Euwema that H. I. Sturcken would serve as acting head of the Department of Spanish, Italian, and Portuguese, effective July 1, 1963 and until such time as a head of the department can be found.

A letter was read from R. K. Murray, Head of the Department of History, stating that during his absence from the University from June to September, 1963, R. W. Green would be acting head of the Department of History.

The secretary read a communication from the Secretary of the Board of Trustees that at its meeting on June 8, 1963 the Board of Trustees approved the recommendation of the Senate to make ROTC voluntary rather than compulsory, effective July 1, 1964.

President Walker introduced Gregory Ain, the new Head of the Department of Architecture, effective July 1, 1963.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved that Items I A and I B be adopted as recommended. The motion was seconded and passed. Mr. Shelley stated that Item IC was for the information of the Senate. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE

COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B" regarding the UNIVERSITY'S NOMENCLATURE FOR THE BACCALAUREATE DEGREE. He moved adoption of the recommended policy. The motion was seconded and passed. The complete report of the Committee is as follows:

UNIVERSITY'S NOMENCLATURE FOR THE BACCALAUREATE DEGREE

The Senate Committee on Courses of Study has requested that the Senate Committee on Educational Policy develop a statement that will provide them with a Senate policy to be used when considering requests for baccalaureate programs which will lead to a degree other than the Bachelor of Arts or the Bachelor of Science. One request of this nature has already been received by that committee and others are expected in the future.

At the present time, the University grants primarily the B.A. or the B.S. with the curriculum being identified on the diploma. The two exceptions are the five year programs leading to the Bachelor of Architecture and the Bachelor of Architectural Engineering. Although the Committee on Educational Policy feels professional degree nomenclature is appropriate for five year bachelor degrees and for certain master's degrees, it is the opinion of the Committee that we should avoid introducing professional or specialized nomenclature in the four year degree.

However, the Committee does feel that there is a need, particularly with the B.S., for the field of study to be identified on the diploma and in the Commencement Program. If such identification is not possible, it seems likely that there would be a growing number of requests for the field of specialization to be made a part of the degree itself by the granting of "Bachelor in . . ."

Therefore, it is recommended that the policy of the University be as follows:

It is the policy of the University to grant only the B.A. or B.S. degree to students completing four year undergraduate curriculums. Undergraduate programs having a high content of the humanities, social sciences, or art ordinarily will lead to the B.A. degree. Programs having a high content of science or of systematic study of some field of activity such as business administration ordinarily will lead to the B.S. degree. When either the B.A. or B.S. is granted, the curriculum designation may be added to the diploma and included in the Commencement Program if the cognizant College wishes this done.*

*fewer than 15 terms

Mr. Schanz presented the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY which had been distributed with the agenda as Appendix "B" regarding GENERAL PURPOSES AND OBLIGATIONS OF THE PENNSYLVANIA STATE UNIVERSITY. This report is as follows:

GENERAL PURPOSES AND OBLIGATIONS OF THE PENNSYLVANIA STATE UNIVERSITY

In December, 1954, the Senate approved a statement on "the purposes and obligations of The Pennsylvania State University." This report established a general framework of educational philosophy for the preparation of the many specific reports needed by the Middle States Association in its task of reviewing the University's accreditation. In January 1957, following the Middle States visitation, the Board of Trustees gave its formal endorsement to the report.

Approximately three years from now, the University will again be visited by the representatives of the Association. We, therefore, must redefine our "purposes and obligations" so as to adjust to the passage of a decade. This must be done before we begin the preparation of the various reports from the individual parts of the University. These detailed reports may take the better part of two years to assemble, so the Educational Policy Committee feels that this initial document should be considered now.

The task of re-examining the purposes and obligations of the University began two years ago. The final draft of the revised statement is now being distributed separately to all members of the Senate. However, the Committee will not ask for formal action by the Senate until after the Fall Term has begun. In the meantime, the Committee hopes that all senators will have an opportunity to read the report and submit any comments or questions which might aid the Committee in its formal presentation to the Senate or which might indicate any refinements needed in the document before it is presented for adoption. The Committee also respectfully suggests, because of the length and scope of the document, that senators intending to offer amendments would aid the Senate in its consideration of their motion by preparing their amendments in writing in advance of the meeting.

The Committee wishes to thank its Subcommittee members, Dale Harris, Monroe Newman, Howard Sprague, Merritt Williamson, and Chairman Henry Sams for their preliminary study. The Committee is also grateful to Henry Sams, Arthur Reede, Chairman of the Senate Committee on Continuing Education Policy, and Arthur Waynick, Chairman of the Senate Committee on Research Policy, for participation in the final review of the document. Finally, the Committee wishes to thank the members of the Council of Academic Deans for taking the time to review the document and comment upon it.

Acknowledgment is made of the contributions of its former Committee members, Robert Enggass, Merrell Fenske, and Robert Murray who participated in the writing of the document.

Mr. Schanz stated that the Educational

(Continued on page three)

MOVIE

A 1936 movie starring Marlene Dietrich, produced by Ernst Lubitsch, and directed by Frank Borzage, will be featured Thursday, July 18, in the International Arts Film program at 7 and 9 p.m. in the HUB Assembly Room. It is a whimsical film which co-stars Gary Cooper and is concerned with a lady jewel thief and an American in Paris and Spain. The short subject is "Japanese House," a 1955 record of the house exhibited by the Museum of Modern Art in 1954.

GRAD EXAM

The regular written Foreign Language Examinations will be held July 15, from 7 to 8 p.m. Those in German will be held in Room 112 Chambers; those in French and Spanish in Room 10 Sparks; and those in English in Room 218 Sparks. Conflict exams in French and Spanish will be held Tuesday, July 16, 7 to 8 p.m., in Room 12 Sparks.

ALUMNI FUND

A record \$293,226.30 was contributed to the Alumni Fund this year, an increase of more than \$45,000 over the previous high set last year. The number of contributors totalled 10,552, only slightly below the 11,014 of last year.

COOPERATIVE

Thirteen metals industries firms contributed during 1962-63 to the Cooperative Program in Metallurgy, through which research projects are sponsored, new faculty members in the department are aided in their research interests, stipends are provided for graduate students and scholarships to undergraduates, and supplies are purchased. Participating firms are informed of progress and results of research through meetings, special reports, abstracts, and pre-publication copies of technical papers.

Senate—

(Continued from page two)

Policy Committee will distribute to the members of the Senate a full report on the General Purposes and Obligations of The Pennsylvania State University during July. President Walker urged the senators to write their reactions to the chairman of the Educational Policy Committee prior to the presentation of the report to the Senate for action at a later meeting.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

W. S. Smith announced an inter-college meeting of interest to the faculty members to discuss the programs of the Core Colleges as they relate to liberal education. The meeting will be held at 8 p.m. on Wednesday, July 10, in Room 121 Sparks Building.

President Walker commented on budgetary matters.

The next regular meeting of the Senate will be on August 6, 1963; the agenda will be distributed on July 23, 1963. The meeting adjourned at 4:15 p.m.

Robert G. Bernreuter
Secretary

The Arts

recital

George E. Ceiga, University organist, will present a concert Sunday at 7 p.m. in Schwab Auditorium. The program will include the following: "Trumpet Tunes and Peal," by Henry Purcell, arranged by Harvey Grace.

"O Man, Bewail Thy Greivous Sin," by J. S. Bach.

"Toccato and Fugue in G Minor," by Bach.

"Piecce Heroique," by Cesar Franck.

"Prelude and Fugue on a theme by Vittoria," by Benjamin Britten.

"Rhosymedre," by Vaughan Williams.

"Toccata from the Fifth Symphony," by Charles Widor.

pavilion theatre

"Rhinoceros," the Eugene Ionesco allegorical play which pokes fun at conventional ideas, will open at Pavilion Theatre Tuesday, July 16 and continue for two weeks. Tickets are available at Pavilion Theatre box office or may be reserved by calling UN 5-6309.

Produced on Broadway in 1961, "Rhinoceros" was a box office success and received favorable reaction from the critics.

John MacKay will play the role of Berenger, a plain man who is stubbornly determined to remain a human being. Max Gulack is cast as Jean, who is transformed from a dapper, portly, mustachioed gentleman to a rhinoceros.

Max Fischer, the director, will also appear in the play as the logician. Others in the cast are Esther Benson, Lydia Bruce, Leon B. Stevens, and Alfred Leberfeld.

curtis concert

The Curtis String Quartet, composed of Meli Mehta and Jascha Brodsky, violins, Max Arnoff, viola, and Orlando Cole, cello, will give the second of its public concerts Tuesday, July 16, at 8 p.m. in Schwab Auditorium.

Featured

Dr. Erwin W. Mueller, research professor of physics, is featured in the German publication, "Quick," in a story which points up the losses in scientific research personnel suffered by West Germany to other countries. Dr. Mueller is shown with a "model" of a tungsten atom and the caption points out that his field ion microscope is capable of enlargements in the order of one million times.

CALENDAR

July 12—Pavilion Theatre production of "Look Homeward, Angel," 8:30 p.m., concludes July 13.

July 12—NDEA Summer Language Institute lecture by Dr. Nelson Brooks, Yale University, "Linguistics and the ELCS Teacher," 8 p.m., Room 9, Sparks.

July 12—Outdoor movie, 9 p.m., HUB lawn; Rec Hall in case of rain.

July 12—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

July 13—Square dance, 9-12 p.m., HUB ballroom.

July 14—Chapel Service, 9 a.m., The Chapel, Rev. Cecil Northcutt, Congregational Union of England and Wales, "The Three Great Decisions."

July 14—Concert by George E. Ceiga, University organist, 7 p.m., Schwab Auditorium.

July 15—Bridge Club, 7 p.m., HUB card room.

July 16—Animal Behavior Institute lecture, 8 p.m., Room 214 Boucke, Dr. V. G. Dethier, zoology department, University of Pennsylvania, "Perception in Invertebrates."

July 16—Concert by Curtis String Quartet, 8 p.m., Schwab.

July 16—Opening night of Pavilion Theatre production of "Rhinoceros," 8:30 p.m.; runs until July 27.

July 18—International Art Film, 7 and 9 p.m., HUB assembly room. "Desire," with Marlene Dietrich, and "Japanese House," a short subject.

July 19—Outdoor movie, 9 p.m., HUB lawn.

July 19—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Aid funds

Three funds to aid students at the University have been established.

The Class of 1913 Memorial Loan Fund, which was established at class reunion activities in June, will accumulate working capital through contributions of class members and friends to aid able students to meet necessary expenses. Usual regulations regarding the loans will be in effect. Earle Mollitt of Dunedin, Fla., is secretary of the class.

An Alumni Graduate Student Loan Fund, which replaces the Graduate School Emergency Loan Fund, will acquire funds through contributions from alumni, graduate students and friends to aid full-time graduate students who are working in programs leading to a graduate degree, are in good academic standing, and are in need. The usual regulations concerning loans are in effect except that a higher maximum has been placed on the amount that can be borrowed by any one student because expenses of many graduate students are higher than those of undergraduates. The maximum will be \$1,000.

The Archie G. Savage Award has been established by Mr. Savage, class of 1928, to provide \$100 to a student majoring in economics each year. The award will go to a student of at least sixth term standing for junior and senior year work.

Benefits—

(Continued from page one)

employee and the University share the cost. At seven universities, the employee pays the entire cost of a Blue-Cross and Blue Shield (or equivalent) plan, and at the other three, both employee and university contribute.

Some universities connected with hospitals or having medical schools provide some medical services, mostly examinations, but again the provisions of this type vary widely, from "none" to "free ambulatory care except for specialist service." Several, like Penn State, provide first aid and emergency care.

There is a certain uniformity in the major medical care plans available, not difficult to understand since the plans are, with one exception, those available from competing insurance companies.

At Penn State, the maximum major medical coverage is \$10,000 per cause for each insured person; in most of the other universities, maximum coverage is either \$10,000 or \$15,000 per individual, sometimes with such qualifying phrases as "per cause," "per family" or "per lifetime." All plans have exclusion amounts, most of them, like Penn State, being \$100, the others varying from \$25 to \$600. With only minor exceptions, the medical charges paid by the insuring constitute 80 per cent of the amount after exclusion, as in Penn State's plan.

Costs of major medical care are generally shared equally by the university and the employee, as at Penn State, although in four cases the employee pays nothing or a limited amount.

Disability Benefits

There is also much uniformity of practice in the matter of disability benefits that were studied. Penn State has an outstanding program for those totally and permanently disabled, included in the provisions of the group life insurance program, Social Security, and State Employees' Retirement System. For example, an employee earning \$700 per month who becomes totally and permanently disabled after five years of service could receive total disability benefits of \$608.80 per month if he were single or \$735.80 per month if he were married and had two dependent children. These benefits include \$271.80 per month from the group life insurance for a period of 60 months and a disability retirement approximating \$210 per month for lifetime. The Social Security disability benefit in this example is \$127 per month for the single employee and \$254 per month for the married employee with dependent children.

Many of the universities indicate that no formal policy exists relative to salary continuance during disability. For example, one says "each case is an individual consideration for the dean" and another says of the amount of salary continuation "full or partial for the period determined in each case."

One university, under special arrangements of its group life plan, provides the full amount of life insurance to the maximum of \$20,000 for total permanent disability. Still another provides under its sick leave plan full or partial salary for a period determined in each case.

Tuition Aid

Tuition aid plans vary greatly also, only four providing tuition exchange plans with other universities. At Penn State, a 75 per cent reduction in tuition is made for the employee and his dependents attending the university. At other schools, tuition exemptions for children, wives, or the employee himself range from "none" to 100 per cent for all three categories. A few (primarily city universities) aid in the primary and secondary education of employees' children.

Leaves

Sabbatical leave policies are similar. At Penn State, faculty members are eligible for sabbaticals after six years (including 18 full terms) of service at professorial rank. At eight universities, such leaves are granted after the seventh year, by one other at six years, and at the remainder by no fixed plan. Penn State grants salary according to a fixed schedule according to service (for 18 terms of service, salary would be one term at full salary plus credit for one-half term, or one term at full salary and one term at half salary, or two terms at three-quarter salary, or three terms at half salary); at most of the other schools full salary is granted for six months leave or half salary for a full year.

CONFERENCES

Twelve conferences and short courses will be held or initiated next week, including such diversified meetings as the Retail Florists Conference, the Workshop for Elementary Principals, the one-day Examination in Direct Microscopic Counting, and the Steelworkers Institute, which starts Sunday.

faculty BULLETIN

Vol. 51, No. 2 July 12, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

The Arts

Troxell concert



Miss Troxell

Barbara Troxell, Penn State Woman of the Year in 1962, one of the country's finest lyric sopranos, and now voice teacher at Cornell University, will give a concert Monday, July 22, at 8 p.m. in Schwab Auditorium.

Most recently, Miss Troxell gave a concert at the National Gallery in Washington, D.C., in June but over the years her singing experience has embraced the recital, concert, and operatic stage both here and in Europe. A 1937 graduate of Penn State, Miss Troxell sang with the choir and has returned several times to the campus for special performances by the choir.

Her program, which is open to the public, will include:

"If Music Be the Food of Love," and other songs by Purcell.

"L'Amore saro costante," from "Il Re Pastore," by Mozart.

Five songs by Schubert.

Three songs by Schumann.

band plays

James W. Dunlop will direct the Summer Band in a concert Sunday, July 21, at 7 p.m. on the steps of the

(Continued on page four)

Integration topic

The local chapter of the American Association of University Professors will hold a general meeting Wednesday, July 24, at 8 p.m. in Room 112 Chambers Building and the general public is invited to hear a panel discussion on the subject of "The Integration Controversy and Academic Freedom."

The three-man panel will be moderated by Dr. Robert Van Waes, staff associate of the national office of the A.A.U.P. in Washington, D. C., who has recently attended the Mississippi State Conference of the A.A.U.P. on the subject of desegregation in higher education.

Journal design

The Journal of General Education, which last year was adopted as the official magazine of the new national Association for General and Liberal Studies and which is edited and produced here, now has a handsome new cover, designed by Maxine Schein of the University Press.

Articles of general interest to the academic world appear in the magazine, which is intended to give scholars a place to talk across department lines with profit. Many Penn State faculty members have contributed articles to the Journal in the past and more are encouraged to do so now.

Manuscripts should be addressed to the editor, Dr. Ben Euwema, dean of the College of the Liberal Arts, or sent to faculty members on the Board of Editors: Paul M. Althouse, Charles T. Davis, and Dr. Sams. Book review editor is Prof. J. Mitchell Morse. Subscriptions to the quarterly are also invited, and may be ordered through the Pennsylvania State University Press.

One of the oldest and best reprinting firms in the country will begin reprinting back issues of the Journal in the fall so that libraries throughout the world will be able to order complete back files.

Pappas honored

The painting, "Landscape over Magazine Table," was one of 73 paintings selected for the Sixth National Jury Show. The selection was made by John Gordon, curator of the Whitney Museum of American Art.

Another of Dr. Pappas' works was exhibited recently at an exhibition at the deCordova Museum, Lincoln, Mass. It was an ink drawing titled, "Coast Guard Beach" and was one of a hundred selected from among more than 700 entries by Frederick Walkey, director of the museum.

Quehanna

A non-profit Commonwealth Industrial Research Corporation which will lease space and facilities at the Quehanna installation of the Curtiss-Wright Corp. to industrial firms or research enterprises will include three University representatives on its Board with President Walker as chairman.

The CIRC Board will be composed of nine persons including the secretaries of Commerce, Forests and Waters, and Labor and Industry, three members-at-large, and three University representatives.

In other developments, Curtiss-Wright has announced it is donating several buildings to the University for final conveyance to the CIRC: a 112,000 square-foot block, steel frame, aluminum panel building; a 3,600 sq. ft. steel frame, aluminum panel building; a wood frame caretaker's house; an 11,000 sq. ft. wood frame lodge; a 3,920 sq. ft. wood frame office building; and a 2,400 sq.ft. steel frame building. Approximately 100 acres of land surrounding the buildings will be conveyed to the Research Corp.

Signing of documents concerning the transfer of properties in the Quehanna area took place in the office of Gov. Scranton.

Awards won

Staff members in the Agricultural Communications department of the College of Agriculture won six awards at the annual meeting of the American Association of Agricultural College Editors at Oklahoma State University, July 8.

Cordell Hatch, extension radio editor, won three blue ribbons, for training materials for a radio teaching machine, for beep telephone coverage of the State Farm Show, and for regular services provided to radio stations.

William Folwell, III, extension television editor, won a red ribbon for a five-minute television film on the College's Open House.

A red ribbon also went to "Science for the Farmer," quarterly publication of the Experiment Station edited by Franklin P. Ferguson, now retired, and George A. Van Horn, associate Experiment Station editor.

A leaflet, "How to Clean Farrowing Houses," by Samuel B. Guss, also won a red ribbon.

COMMENCEMENT

Commencement exercises for the Summer Term will be held Sunday, Sept. 1, at 2 p.m. in Recreation Building. Further details about faculty participation will be given later.

PERSONNEL MATTERS



Fellows

Robert D. Fellows, associate professor of mechanical engineering, will retire Aug. 1 after more than 35 years on the faculty. He joined the staff in 1924 as assistant instructor but for 1926 and 1927 was research assistant with the Savage Arms Corp.,

Utica, N. Y., and was chief of the statistical department with Willard and Co., of New York, 1929-30 before rejoining the faculty. He received both bachelor's and master's degrees from Penn State. He is co-author of the textbook, "Mechanical Engineering Laboratory Practice" and is working on a revision of the book.

Bernard P. Taylor, for ten years executive director of the Penn State Foundation, has retired. He was appointed to the staff in 1952 and helped to organize the total fund-raising program, including the Alumni Fund. He came to the University after many years in college and university fund-raising activities and established and taught at the first workshop on fund-raising at Chautauqua, N. Y., a program developed by New York University and now operated by Syracuse University.

Ernst A. Ebbinghaus, associate professor of English and Germanic philology at Washington University, St. Louis, since 1960, has been named professor of German. After receiving his doctorate at the University at Marburg, Germany, in 1951, he served for a year as teaching assistant in the German seminar at the Technische Hochschule in Braunschweig, Germany, and from 1953 to 1958 was assistant and lecturer in older German dialects at the University of Marburg. He became visiting lecturer at Washington University in 1959 and since 1960 has been associate professor in the English and German departments, teaching in the area of the older Germanic dialects, including Gothic, Old Icelandic, Old English, Old High German, and Middle High German.

Dr. John M. Beer, head of the Research Station for the International Flame Research Foundation at Ijmuiden, Holland, has been named professor of fuel technology, effective

Sept. 1. He studied at the University of Budapest, received a diploma of engineering in electrical engineering at the Technical University of Budapest, and was granted the doctorate in fuel technology by the University of Sheffield, England. His work with the Foundation has been concerned with experimental and theoretical studies of large flames for industrial furnaces.

Leaves

Dr. Leo Bressler, associate professor of English, will work on a textbook on the reading of fiction, for use in high schools, while on leave from Sept. 1 to Jan. 5.

Charles H. Brown, professor of journalism, will work on a book on newspaper and magazine reporting during the Spanish-American War, "The Correspondents War," while on leave from January to June, 1964. The book will be an account of the experiences and adventures of correspondents during the period of the war.

Dr. Robert W. Green, associate professor of European history, will continue research at the Bibliotheque Nationale in Paris while on leave from January to June 14, 1964. His research is concerned with Louis XIV, King of France from 1643 to 1715, and he will do preliminary research on Marshal Villars, French general during the Wars of Spanish Succession.

Dr. William F. Prokasy, Jr., assistant professor of psychology, will be on leave from September through June, 1964, to continue research on classical conditioning at Indiana University as a senior NSF post-doctoral fellow.

Other leaves granted recently include:

Edward S. Kenney, research associate in nuclear engineering, July 1 through June 30, 1964, to work on his doctorate in physics under a Ford Foundation Forgivable Loan.

Bernard H. Carson, instructor in aeronautical engineering, July 1 to June 15, 1964, to work for his doctorate at California Institute of Technology under an NSF Science Faculty Fellowship.

Wesley R. Kriebel, assistant professor of agricultural economics extension at Gettysburg, July 1 to June 30, 1964, to work for his doctorate in marketing transportation at the University of Missouri.

Aubrey D. Vose, instructor in agricultural economics extension at Wilkes-Barre, through January, 1964, at Eastern New Mexico University working for his master's degree.

Henry P. Lauer, Jr., assistant Snyder County agricultural agent, through June 30, 1964, for military service.

Alfred W. Norman, assistant Clarion County agricultural agent, through June 30, 1964, for military service.

Roy L. Russo, instructor in electrical engineering, through June 30, 1964, to work on his doctorate at Penn State.

Department heads

The following have been named to act temporarily as heads of their respective departments:

Dr. James Tammen, associate professor of plant pathology, for the department of agricultural plant pathology.

Dr. Beckford F. Coon, professor of economic entomology, for the department of agricultural entomology.

Dr. Eugene T. McDonald, professor of speech and speech education, for the department of special education.

Dr. Harold E. Mitzel, professor of psychology, for the department of educational psychology.

Dr. William A. Williams, professor of industrial education, for the department of vocational education.

Dr. Lois B. Hyslop, professor of Romance languages, for the department of French.

Dr. H. Tracy Sturcken, associate professor of Romance languages, for the department of Spanish, Italian, and Portuguese.

Other department heads named include:

Dr. Franklin B. Krauss, professor of Latin, department of classical languages.

Dr. Grant N. Farr, from the University of Colorado, department of economics in the College of the Liberal Arts, effective Aug. 6.

Dr. Dale B. Harris, continuing as head of the department of psychology, now in the College of the Liberal Arts.

Department heads in the new College of Science include the following:

Dr. Howard O. Triebold, biochemistry in the College of Science.

Dr. Ernest C. Pollard, biophysics.

Dr. Alvin R. Grove, botany.

Dr. Robert W. Stone, microbiology.

Dr. Bertil G. Anderson, zoology.

Dr. James B. Bartoo, mathematics.

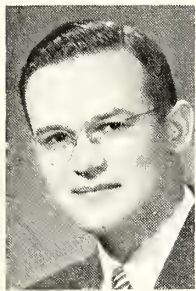
Dr. Thomas Wartik, chemistry.

Dr. John J. Gibbons, physics.

Alumina Patents

Copies of several patents issued by the Canadian Patent Office on the production of alumina, addressed simply to the Pennsylvania State University, are being held in the patent office of the Ordnance Research Laboratory since the rightful owners could not be found. Anyone who ordered or expected to receive such materials may have them by calling UN 5-6273.

Almquist award



Almquist

Dr. John O. Almquist, professor of dairy physiology, has become the fifth Penn State faculty member to win the coveted Borden Award, which includes a gold medal and \$1,000.

Previous winners of the Award were

Donald V. Josephson, Francis J. Doan, Chester D. Dahle, and Stuart Patton.

The citation accompanying the award to Dr. Almquist, which was made at the recent annual meeting of the American Dairy Science Association, stressed his research in the physiology of reproduction and its application to the artificial insemination of dairy cattle.

Among his research findings, the citation noted, were methods of extending semen with glycerol and other extenders. Scientists at the Dairy Breeding Research Center which he heads have added significantly to the knowledge of reproduction and of infertility of heifers and cows.

A native of Nebraska, Dr. Almquist was graduated from Cornell University, received his master's from Purdue, and his doctorate from Penn State. He has been at Penn State for 19 years.

Author or co-author of more than 75 papers, he described his studies of sexual behavior and semen production of bulls at the Third International Congress on Animal Reproduction at Cambridge, England, in 1956 and in 1961 he presented a paper at the Fourth International Congress on Animal Reproduction at The Hague, The Netherlands.

Movie

The feature film of the NDEA Summer Language Institute will be "Monsieur Vincent," Thursday, July 25, at 7:30 p.m. in Room 111 Boucke.

Animal Behavior

Two lectures will be given next week in the Summer Institute in Animal Behavior which may be of interest. Tuesday, July 23, Dr. L. R. Aronson, American Museum of Natural History, will speak on "Mating Behavior in Male Cats." Thursday, July 25, Dr. W. A. Mason, Yerkes Laboratory of Primate Biology, in Florida, will speak on "Social Behavior of Young Chimpanzees." Both lectures are open to the public and both are scheduled at 8 p.m. in Room 209 Home Economics South.

Blunt reception

A reception for Sir Anthony Blunt, one of the world's most illustrious art historians and current distinguished visiting professor of art and architectural history, will be held Sunday, July 21, from 3 to 4:30 p.m. in the main lounge of the HUB.

A Fellow of the British Academy and Knight Commander of the Victorian Order, Sir Anthony is professor of art and director of the Courtauld Institute of the University of London, the leading center for art historical studies in the British Isles. He is Surveyor of Pictures to Queen Elizabeth as he was to King George VI.

On campus he is conducting a lecture course on 17th-century French art and civilization, concentrating on the work of Nicolas Poussin and the architecture of the period.

GRANTS

E. H. Ludwig, bacteriology, \$20,832, U. S. Public Health Service, for training program in microbiology.

H. W. Sams, English, \$1,500, Modern Language Association, for English research.

Grace M. Henderson, Home Economics, varied amounts, General Foods Fund, Inc., for graduate fellows in Home Economics.

C. D. Schmulbach, chemistry, and **Frank Dacheille**, geochemistry, \$2,800, for studies in crystalline inorganic compounds.

Harold J. Read, metallurgy, \$49,400, National Science Foundation, for studies on electrosynthesis of metals and alloys.

R. W. Lindsay, metallurgy, \$800, International Nickel Co., for graduate research in metallurgy.

P. B. Pfahl, horticulture, \$1,000, Pennsylvania Retail Florists, for research in retail floriculture methods.

H. L. Hartman, mining, \$15,000, American Petroleum Institute, for studies on the mechanics of penetration in rock drilling processes.

E. R. Ryba, metallurgy, \$28,611, U. S. Army Research Office, for studies of intermetallic compounds of vitrium.

D. M. Rank, physics, \$6,500, Office of Naval Research, energy levels of polyatomic molecules.

H. J. Read, metallurgy, \$7,500, National Steel Corporation, fundamental studies on the structure of electrodeposited alloys.

J. C. Johnson, Ordnance Research Laboratory, \$22,845, purchase of facilities for operations.

W. M. Gotolski, civil engineering, \$14,410, Penna. Dept. of Highways, evaluation of paving asphalt properties.

E. C. Pollard, biophysics, \$27,720, U.S. Atomic Energy Commission, action of ionizing radiation on microorganisms.

A. W. Vandermeer, Education, and **P. D. Holtzman**, speech, \$54,171, U. S. Office of Education, graduate programs in communications.

Research seminars

Dr. Jerome K. Pasto, associate director of resident education in the College of Agriculture, is presenting a series of special research seminars for 30 Asian and Far East students at the University of Oregon this month. The students are studying for advanced degrees in agricultural economics at various universities in the United States. The seminar program is supported by the Council on Economics and Cultural Affairs.

Curtis quartet

The Curtis String Quartet will give the third of its summer concerts Wednesday, July 24, at 8 p.m. in Schwab Auditorium, with the young piano virtuoso, Allan Mandel, as guest. Mandel, who was a visiting teacher during the Spring Term, gave a concert in Schwab Auditorium May 28.

CALENDAR

July 19—Outdoor movie, 9 p.m., HUB lawn.

July 19—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

July 19—Pavilion Theatre, "Rhinoceros," curtain time, 8:30 p.m. Also July 20, and July 23-27.

July 20—Square dance, 9-12 p.m., HUB ballroom.

July 21—Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Thomas Olbricht, instructor in speech.

July 21—Summer Band Concert, 7 p.m., Pattee Library steps.

July 21—Reception for Sir Anthony Blunt, 3-4:30 p.m., HUB lounge.

July 22—Barbara Troxell concert, 8 p.m., Schwab Auditorium.

July 22—Bridge Club, 7 p.m., HUB card room.

July 23—Summer Institute in Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. L. R. Aronson, American Museum of Natural History, on "Mating Behavior in Male Cats."

July 23—Summer Band concert at Park Forest Village, 7 p.m.

July 24—Curtis String Quartet concert with Allan Mandel as guest artist, 8 p.m., Schwab Auditorium.

July 24—A.A.U.P. panel discussion on "The Integration Controversy and Academic Freedom," 8 p.m., Room 112 Chambers.

July 25—Summer Institute in Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. W. A. Mason, Yerkes Laboratory of Primate Biology, on "Social Behavior of Young Chimpanzees."

July 25—NDEA Summer Language Institute film, "Monsieur Vincent," 7:30 p.m., Room 111 Boucke.

July 25—International Art Film, 7 and 9 p.m., "Sunrise," (1927) and short subject, "St. Louis Blues," singing of Bessie Smith.

July 26—Outdoor movie, 9 p.m., HUB lawn.

July 26—Interlandia Folk dance, 7:30 p.m., HUB ballroom.

NSF fellowships

Faculty members may be interested in three National Science Foundation fellowship programs now available.

Postdoctoral Fellowships, with an application deadline of Sept. 3, are available to young scientists who have earned the doctorate or have had research training equivalent to it. Approximately 65 fellowships will be awarded Oct. 28 for full-time scientific study and/or research for periods of six to 24 months to begin within one year of the announcement of the award. The annual stipend is \$5,500 plus an allowance of \$500 for each dependent, with a limited allowance for cost of travel and research expenses.

Office cards used in obtaining application materials may be obtained from the Graduate School Office, 101 Willard. The cards must be filled out and sent to Washington, D. C., to obtain application materials.

Science Faculty Fellowships, with an application deadline of Oct. 7, will be awarded to approximately 400 eligible persons to improve their competence as college or university teachers of science, mathematics, and engineering; those holding a doctor's degree in science or mathematics; and those not holding a doctorate. Tenure of from three to 15 months may be requested and of especial interest is the provision that the recipient may take the award for three successive summers instead of over a continuous period. Recipients must have a baccalaureate degree and three years of college or university teaching with a rank of instructor or higher on a full-time basis and teaching mainly undergraduate students. Stipends will be adjusted to approximate the recipient's normal income, reduced by the amount of other fellowships or sabbatical leave salary received.

Application materials may be obtained from the Graduate School Office, 101 Willard, or from the Division of Scientific Personnel and Education, National Science Foundation, Washington 25, D. C. Com-

pleted application materials are due Oct. 7 at the Foundation office.

Senior Postdoctoral Fellowships, having an application deadline of Oct. 7, will be awarded Dec. 9 to approximately 100 scientists five years or more past the doctoral degree at the time of application and who, relative to age, experience, and opportunities, have received recognized stature in their fields. Applicant must present a plan for study and/or research with a view to increasing his competence in some specialized field of science or in broadening his competence in related fields of science. Stipends are provided on a salary-matching principle, adjusted so that the combined support from the Foundation and from other sources will not exceed \$15,000 per year plus special allowances for travel and other needs.

Application materials are available from the Graduate School Office, 101 Willard or from the Foundation, Washington, 25, D.C.

Insurance

Effective July 1 the University's automotive equipment became insured by the National Union Insurance Co. of Pittsburgh, lowest bidder in competitive bidding.

Locally, the company is represented by Henry S. Elder, 215 E. Beaver Ave., State College. Coverage is provided by the fleet policy for both owned and non-owned vehicles (those on loan or lease and also privately-owned vehicles when used on University business).

The driver of a University vehicle who becomes involved in an accident should report to the above address immediately all the pertinent details, as called for by the accident report form. All University vehicles have an insurance card which lists the nearest claim office of the Company if it is not convenient to report to the Elder agency office. Also indicated on the card is the total information the driver should obtain.

Those using private vehicles for University business should understand that the coverage of the vehicle under the University's policy should in no way alter their personal coverage.

The Arts—

(Continued from page one)

Pattee Library. In case of rain, the program will be given in Schwab Auditorium. The program:

The National Anthem.

Block M. Concert March, by Jerry Bilik.
Concert Overture for Band, by Robert G. Johnson.

Blue Bells of Scotland, by Arthur Pryor, with Jack Krone as trombone soloist.

Fete, by Ralph Hermann.

Harlequin, by Clare Grundman.

Casa Grande, by Henry Gass.

Hebrides Suite, by Clare Grundman.

Tango for Band, by Glenn Osser.

Selections from "Gigi" by Frederick Loewe.

The Stars and Stripes Forever.

second concert

The Summer Band, again directed by James Dunlop, will give another concert Tuesday, July 23, at 7 p.m. in the playground area of Park Forest Village, sponsored by the Social Committee of the Village. No admission will be charged and the public is welcome. Refreshments will be sold to defray the costs of the concert. This is a community development project of the Village. The playground is along Park Forest Ave. two blocks from the main entrance.

pavilion theatre

Eugene Ionescu's "Rhinoceros" continues at Pavilion Theatre next week, concluding Saturday, July 27. The allegorical play, produced on Broadway in 1961, was a box office success.

Tickets may be obtained at the Pavilion Theatre box office (opposite Borland Building) or reserved by calling UN 5-6309.

faculty BULLETIN

Vol. 51, No. 3 July 19, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

The Arts

pavilion theatre



Stevens

One of the foremost dramas of the Broadway stage in the past two decades, "Death of a Salesman," will be the Pavilion Theatre feature starting Tuesday, July 30, and continuing for two weeks.

The Arthur Miller play about the

tragic Willy Loman and his dreams opened on Broadway in 1949 and the acclaim it got then is still echoing today. It won the Pulitzer Prize, the Critics Circle Award, and the Antoinette Perry Award among many other honors.

Leon B. Stevens will have the lead role of the salesman who talked bigger than he was and his stage wife will be played by Esther Benson. John McKay and Art Sokolove will play the two sons, Max Gulack has the role of Uncle Ben, and Alfred Leberfeld the fellow salesman. Lydia Bruce will be cast as the woman with whom Willy has an affair.

Tickets for the show are on sale at the Pavilion Theatre box office or may be reserved by calling UN 5-6309.

Degrees granted

According to the Bureau of Research of the Pennsylvania Department of Public Instruction, Penn State granted more degrees in the 1962-63 academic year than any other State university and also more than the combined total of all the 14 State Colleges.

Of the total of 36,084 degrees granted State-wide, Penn State gave 5,430 or 15 per cent; the 14 State Colleges, 5,186 or 14.3 per cent; University of Pennsylvania, 3,271 or 9.1 per cent; Temple, 2,504, or 7 per cent; University of Pittsburgh 2,200 or 6.1 per cent; and the other state institutions of higher learning, 17,491, or 48.5 per cent.

Penn State granted 578 associate degrees, Temple, 317.

The same issue of the Department's *Newsletter* that contains these statistics also reports on Penn State's new programs in graduate engineering training in the central-State area and on the new fellowship program for Peace Corps returnees.

Telecast

"Penn State Journal," a new film of events on the campus occurring within the past six months, will be shown on WFBG-TV, Channel 10, Sunday, Aug. 4, at 5 p.m.

Titled "A New Look," the film is the first of a series and includes scenes of the new radio telescope, chemical engineering research work, opening of the new Pavilion Theatre, the production of the "Hootenany" television show which took place on the campus during the Spring Term, and football practice scenes.

The film is currently being used by Alumni Clubs throughout the country and by Alumni Fund personnel to acquaint the Penn State family with campus activities.

James Vitale, of the Public Information office, did the shooting of the film.

Miller at meeting

Dr. E. Willard Miller, professor of geography, is attending joint meetings of the Commission of Basic Natural Resources of the Pan American Institute of Geography of the International Geographical Union in Venezuela, July 21 to Aug. 7. He is the U. S. representative and the trip is sponsored by the National Science Foundation.

Purpose of the meeting is to study the problems of the development of such basic resources of the Latin American nations as water, soils, and mineral resources.

Physicist visits

Otto Johann Ogrim, University of Oslo, Norway, lecturer in physics and director of undergraduate instruction in physics, will visit the campus Aug. 1 and 2 to speak to those attending the Summer Institute for Secondary Teachers of Science and confer with faculty members.

He will also give two public lectures of general interest. Thursday, Aug. 1 at 4 p.m. in Room 117 Osmond he will speak on the subject, "Physics of the Senses," considering especially the eye and ear.

Friday, Aug. 2, he will speak on "The School System in Norway," at 2:30 p.m., also in Room 117 Osmond.

During his visit, Dr. Ogrim will welcome all opportunities to meet with faculty members. He may be reached through the Science Institute office at Room 200A Walker Laboratory.

Among Ogrim's more important science publications are those concerned with atomic scattering factors, mechanics and elementary statistical thermodynamics, energy consumption traveling to Alpha Centauri, and quantities, units, and symbols in physics.

Nuclear program

The American Society for Engineering Education, under contracts with the Atomic Energy Commission, will initiate two new programs in the field of nuclear engineering during the next academic year.

A Nuclear Science and Engineering Consultation Program, designed to provide a mechanism for stimulating interest and improving instruction in nuclear science and engineering in colleges, universities, and technical institutes, will involve scientists, engineers, and engineering educators well versed in various aspects of the field serving as consultants. On request from a college, university, or technical institute, the consultants may spend up to five days on the campus giving lectures in special areas of nuclear engineering and be available for conferences with students and faculty.

Under the program titled Short Topical Conferences in Nuclear Engineering, a series of four meetings will be scheduled to bring together people with a common interest in a particular aspect of nuclear engineering. The objectives are to stimulate the interchange of knowledge on a research basis and also on the interpretation with respect to graduate study and to modify and develop graduate study programs with emphasis on improving the effectiveness of graduate study.

PERSONNEL MATTERS



Deike

George H. Deike, Sr., president emeritus of the Board of Trustees, died in Pittsburgh July 16 at the age of 83. A 1903 graduate of the University in mining engineering, he established with John T. Ryan, class of 1908, the Mine

Safety Appliances Co. of which he was Board chairman at his death. He was elected to the University's Board in 1925 and served on the Board since that time. He was elected president in 1956.

Mr. Deike was a pioneer in the field of mine and industrial safety and today his firm manufactures and distributes nearly 4,000 items of safety equipment and is the world's largest manufacturer of safety equipment for industry.

Jesse H. Landenberger, Lackawanna County agent, died July 9, at the age of 58. A 1933 graduate of the University in horticulture, he joined the Ag Extension staff in 1937 after two years at the Pennsylvania Industrial School as horticulturist and two years at the University of Missouri as assistant county agent. Among his honors was the Distinguished Service Award of the Scranton (Pa.) Chamber of Commerce.

Dr. A. W. Gauger, professor emeritus of chemical engineering and director of the Mineral Industries Experiment Station from 1931 to 1952, died at the age of 70 July 18 in Mor-

ristown, N. J. A native of Minnesota, he was graduated from the University of Minnesota with master's and doctor's degrees from Princeton University. He was director of mines and mining experiments at the University of North Dakota before coming here.

Dr. Robert D. Shipman, associate professor of forestry at Clemson College, has been named associate professor of forestry. He is a native of West Virginia and received bachelor of science and master's degrees in forestry from the University of Michigan and doctorate from Michigan State University. He was research forester with the U. S. Forest Service at Asheville, N. C., from 1952 to 1958 and has served at Clemson since then.

Dr. Frederick Y. Borden, research associate at the Computation Center, has been appointed assistant professor of forestry. He received bachelor's and master's degrees in agronomy from Cornell University, and doctor's degree from Penn State in 1960 in agronomy.

Dr. Thomas F. Hartman has been named assistant professor of psychology and education. Formerly research staff member of the Behavioral Sciences Group of International Business Machines Corp., he received all three degrees from the University of Wisconsin.

Dr. R. L. Slobod, professor of petroleum and natural gas engineering, will be on leave to accept a request to establish a new department of petroleum engineering at the Institute of Technology, Bandung, Indonesia, as part of the U. S. State Department's A.I.D. program. He will begin the work Sept. 1 and will be gone for two years.

CHESS

The U. S. Junior Chess Championships, for those under 21 years of age, will be held at the University Aug. 5 through 9. It is expected to attract nearly 100 players from throughout the entire country. Many of the previous winners of this tournament have later entered international competition.

WINNER

A recording made in support of the 1963 Alumni Fund won first place in the category, Annual Alumni Giving (Single Piece) in competitions of the American Alumni Council.

DAY CENTER

Nearly 400 children of migrant workers are being aided this summer at Day Care Centers operated by child development and family relationships department in cooperation with the Penna. Dept. of Public Welfare. Mrs. Naomi L. Naylor, instructor in child development and fam-

ily relationships, is coordinator of the program, which was developed originally in 1959 by Dr. Winona L. Mergan.

CHURCH INSTITUTE

The second annual Pastoral Counseling Institute, cosponsored by the Centre County Ministerium, the College of Home Economics, and Continuing Education Services in October will have as a theme, "The Church and the Family—Concerns for Dynamic Ministry." Five weekly lectures on various aspects of pastoral work will be presented by members of the faculty.

INTRODUCTION

Dr. James E. Wright, Jr., professor of genetics, wrote the introduction to the book, "Clinical Genodermatology," by Dr. Thomas Butterworth and Dr. Lyon P. Stream, published by Williams and Wilkins. One reviewer took the trouble to praise the introduction.

BOC concerts

Three concerts, all open to the public, will be given by students attending the Band-Orchestra-Chorus School next week.

The Chorus, directed by W. Paul Campbell, will give its concert Monday, July 29, at 8 p.m. in Schwab.

Chorus Program

The 52-voice Chorus will sing a variety of classical, romantic, madrigal, folk, patriotic, contemporary, and Broadway music. Included will be the following:

Gloria in Excelsis, by Mozart.

Gloria in Excelsis, by Jolley.

My Bonnie Lass, She Smileth, by Bottomley.

There is a Balm in Gilead, a spiritual.

Everytime I Feel the Spirit, a spiritual.

Deep River, a spiritual.

Hospodi Pomilui, by Lvovsky.

One World, by O'Hara.

Morning Now Beckons, a Czecho-Slovakian folksong.

When Love is Kind, an English folksong.

Ode, by Bacon.

Broadway selections by Richard Rogers.

Ours is the World, by Morgan.

Give Me Your Tired, Your Poor, by Irving Berlin.

Band Concert

James W. Dunlop will direct the Summer Band Thursday, Aug. 1, also at 8 p.m. in Schwab. Featured will be a valvette-cornet trio, composed by Joseph Catizone, with soloists Lin Biviano, Upper Darby; Thomas Brainerd, Newton Square; and Dennis Brandt, West York. Also featured will be the BOC Dance Band, directed by Stanley F. Michalski, Jr., in Joe Garland's "Leap Frog."

The Band concert will also include J. J. Richards' "Emblem of Unity"; Carter's "Overture in E Flat"; Washburn's "Burlesk for Band"; Aaron Copland's "Variations on a Shaker Melody"; Harry Simeone's "Slide Kicks"; "Laura" by David Raskin; and selections from Richard Rodgers' "State Fair."

Orchestra

Theodore Karhan will conduct when the BOC Orchestra presents its final concert Tuesday, July 30, at 8 p.m. in Schwab Auditorium. The 62 instrumentalists, who are not only from Pennsylvania but also from as far away as Florida and the Mid West, will give the following program:

Toccata, by Girolamo Frescobaldi.

Concerto for Two Violins, by Bach.

Rhapsody Norvegienne, by Edward Lalo.

Serenade for Strings, Op. 48, by Tchaikovsky.

Symphony No. 5, Op. 107, by Mendelssohn.

ITEMS OF INTEREST

ASPATURIAN, V. V., political science, "Effective Methods of International Negotiation," at the Congress of Scientists on Survival in New York.

BURNETT, C. R., physics, with Bickel, W. C. and Schertler, R. J., "Large Hollow-Cathode Plasma Source for Afterglow Studies," at the American Physical Society meetings in Buffalo.

CAMPBELL, R. A., engineering graphics, "The Dissemination of Research Results in Engineering Graphics," at American Society for Engineering Education meetings in Philadelphia.

CUTLER, P. H., physics, with DAVIS, J. C., "Numerical Treatment of Electron Reflection for Different Surface Barrier Models" at American Physical Society meetings in Buffalo.

DENO, NORMAN, chemistry, technical paper at the meeting of the Chemical Institute of Canada in Toronto; also at the American Petroleum Institute in Philadelphia.

HARMS, IRENE, child development, with HAAS, MIRIAM BUSIKOFF, "Social Interaction between Infants," in the March issue of the Journal of Child Development.

INTORRE, JOSEPH, Institute of Public Safety, "Which One," in Safety Education, publication of the National Safety Council.

JORDAN, JOSEPH, chemistry, "Oxidation Reduction Reactions in Molten Salts Solvents," with KARL R. ROMBERGER and MARTHA H. YOUNG; also, "A New Polarographic Linear Diffusion Electrode," with JUDITH H. CLAUSEN, both at the 19th International

Congress of Pure and Applied Chemistry in London, England.

KLAUS, E. E., chemical engineering, with J. A. O'BRIEN, Socony Mobil Oil Co., "Precise Measurement and Prediction of Bulk Modulus Values of Fluids and Lubricants," at the Spring Lubrication Symposium of the American Society of Mechanical Engineers, in Boston.

KNEEN, T. B., planning and construction, "Steam Loads in Recent University Buildings," at the 54th National District Heating Association meeting at Virginia Beach.

LINDSTROM, E. S., bacteriology, "Ecology and Physiology of the Photosynthetic Bacteria," at the Rudolphs Research Conference on Principles and Applications in Aquatic Microbiology at Rutgers University.

MCCORD, R. E., continuing education, and SCHAEFER, C. J., industrial engineering, "Needed: A Definition of the Technician" in the June issue of Technical Education News.

McLANE, BROOKS, physics, "Use of an Image Intensifier for Field Ion Microscopy," with E. W. MUELLER and OSAMA NISHIKAWA, at the American Physical Society meeting in Buffalo.

MOOK, M. A., anthropology, "Why We Behave as We Do," at the Cooperative Extension Service Conference at Rutgers University.

— "The Quaker Language, Anecdotally Considered," at the annual Spring Meeting of the Pennsylvania Folklore Society at Lycoming College.

— "Pennsylvania's Sectarian Societies," at the Fifth Annual Institute of Pennsylvania Life and Culture at Lancaster.

PANOFSKY, H. A., meteorology, with F. HALBERG, University of Minnesota Medical School, "The Concomitant Evaluation of Circadian and Menstrual Components in the Variance Spectrum of Body Temperatures," at the Conference on Photo-Neuro-Endocrine Effects in Circadian Systems with Particular Reference to the Eye, sponsored by the New York Academy of Sciences.

REMICK, F. J., nuclear reactors, "Operating University Reactors within the Myriad of Local, State and Federal Regulations" in the June issue of Nuclear News, official publication of the American Nuclear Society.

SIGNILL, PETER, physics, "Regge Trajectories for Interaction Containing Hard Cores," with J. W. DURSO, at an international symposium on nucleon structure at Stanford University.

SKEEL, P. S., chemistry, chemistry of carbon vapor and chemistry of carbonium ions at universities and technical meetings in England and Europe.

— with L. D. WESCOTT, JR., "Chemical Properties of C_{60} , a Dicarbene," at the Sixth Biennial Conference on Carbon, at Pittsburgh.

SNOWDON, J. C., Ordnance Research Laboratory, "Representation of the Mechanical Damping Possessed by Rubberlike Materials and Structures" in the June issue of the Journal of the Acoustical Society of America.

SEARLING, J. L., agronomy, with ALLISON, J. C., "Cytogenetic Studies of the BC_1 and BC_2 Generations from Interspecific Hybrids between *Phalaris arundinacea* and *P. tuberosa*," in Crop Science publication.

CALENDAR

July 26—Outdoor movie, 9 p.m., HUB lawn.

July 26—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

July 26—Pavilion Theatre, "Rhinceros," 8:40 p.m. Concludes July 27.

July 26—BOC students instrumental recital, 8 p.m., Schwab.

July 27—Square Dance, 9-12 p.m. HUB ballroom.

July 28—Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Robert T. Oliver, department of speech.

July 28—Hillel Graduate Association, open meeting, 8 p.m. Harold P. Zelko, professor of speech, on "Theories and Concepts of Communication."

July 29—Bridge Club, 7 p.m., HUB card room.

July 29—BOC Chorus final concert, 8 p.m., Schwab Auditorium.

July 30—BOC Orchestra concert, 8 p.m., Schwab Auditorium.

July 30—Opening performance of Pavilion Theatre's "Death of a Salesman," 8:40 p.m. Two-week performance.

July 30—Summer Institute of Animal Behavior lecture, 8 p.m. Room 209 Home Economics South. Dr. W. C. Diller, Cor-

nell University, on "The Development of Species-Typical Behavior."

July 30—NDEA Summer Language Institute movie, "Los Tres Compadres," 7:30 p.m., Room 111 Boucke.

Aug. 1—BOC Band concert, 8 p.m., Schwab Auditorium.

Aug. 1—Summer Institute in Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. H. E. Winn, University of Maryland, on "Recent Advances in Acoustical Communication."

Aug. 1—NDEA Summer Language Institute lecture, 8 p.m., Chapel Lounge, Dr. Leonide Goldstein, Princeton University, on "Les Grandes Epoques de la Science Francaise."

Aug. 1—Iota Alpha Delta meeting, 7:30 p.m. Dr. John Walner, University psychiatrist, on "Counseling for Adjustment to College Life."

Aug. 1—International Art Film, 7 and 9 p.m., HUB assembly room. "Morocco." (1930)

Aug. 2—Microbiology Seminar, 1 p.m., Room 206 Patterson. Dr. W. J. Dobrogosz, on "Regulation of Beta-galactosidase formation in *E. coli*—studies on the mechanism(s) of catabolite repression."

Aug. 2—Outdoor movie, 9 p.m., HUB lawn.

Aug. 2—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

ART MOVIE

The movie for next week in the series of International Art Films is "Morocco," made in 1930 by Joseph von Sternberg, starring Marlene Dietrich. The film is noted for use of action and limitation of sound although it is a sound movie. The short subject is "Pow Pow," made in 1960 by Allen Downs and Jerome Liebling, and it is an anthropological comedy out of an ordinary rehearsal of the University of Minnesota band. The films will be shown Aug. 1 at 7 and 9 p.m., in the HUB assembly room.

MEMORIAL FUND

A Walter C. Reis Memorial Fund, honoring the late Prof. Reis who died in May, has been established by Alpha Rho Chi, architecture fraternity, Scarab, national honor society in architecture, and the student chapter of American Institute of Architects. The contributions to be received will be dispensed by officers of the organizations and will be used for such purposes as loans for students. Contributions are being accepted through the office of the department of architecture.

Mr. Reis was a member of the faculty in architecture from 1958 until his death.

SENATE MINUTES

ANNUAL REPORTS OF COMMITTEES

ON ADMISSIONS

The Senate Committee on Admissions during the 1962-63 year studied the admission requirements for associate degree programs and recommended certain changes to the Senate for consideration at its June meeting. These changes have two principal purposes:

1. *Strengthening the mathematics prerequisites for admission to associate degree programs in Drafting and Design Technology, Electrical and Electronics Technology, Production Technology, Surveying Technology, and Chemical Technology.*
2. *Extending the requirement that scores of the Scholastic Aptitude Test of the College Entrance Examination Board or of the Penn State Examination must be submitted for admission to all associate degree programs except the one in Chemical Technology.*

The Committee has informally discussed two other important admissions matters and plans to study them in more detail next year. One of these is the matter of granting credit to students admitted to Penn State who have passed examinations in certain basic subjects offered by the College Entrance Examination Board. A second matter scheduled for study by the Committee concerns that part of Senate Rule A-3 which requires that a student who has interrupted his continuous enrollment by not attending the fall, winter or spring term must apply for readmission in order to return to the University.

*Eugene Goodwin,
Chairman*

ON EDUCATIONAL POLICY

The Educational Policy Committee met 35 times during the period June 10, 1962 to

June 8, 1963. The topics considered during that period are summarized below:

A. *Purpose and Obligations of the University.* The continuation of work initiated in 1961 to draft a new statement of the purposes and obligations of the University as the first step in preparing for the next visitation of the Middle States Association was the most important and time consuming task undertaken by the Committee during the year. Starting with a preliminary study prepared by its Sub-Committee during the previous year, the Committee completed a draft of its report by early June 1963. This draft will undergo a final series of reviews and should be ready for distribution to the Senate membership in the early part of the Summer.

B. *R.O.T.C.* In view of pending action before the Senate on recommendations to discontinue compulsory R.O.T.C., the Committee spent several meetings discussing the matter and also conferred with other Committees of the Senate on the same subject. See Faculty Bulletin, October 12, 1962.

C. *Grade Point Averages and the Removal of Failures.* Members of the Committee and other University personnel recommended a review of the University's policies of calculating student averages, e.g., previous failures are included after a course has been passed. Furthermore, it was considered possible that our own students were penalized when shifting Colleges within the University in comparison to students transferring to Penn State from other schools. After investigating these matters, the Committee's decision was not to propose any changes in the existing rules and policies.

D. *Term System Analysis.* The Subcommittee formed last year to analyze the term system completed its study and submitted a report to the Committee at the conclusion of the Spring Term. Prior to this, the Subcommittee made interim recommendations concerning grading of individual research work and the use of Audio-Visual Aids when

faculty members are absent from class. The Educational Policy Committee approved in principle the idea of a different grading system for individual research and seminar work and presented the idea to the Academic Standards and Courses of Study Committees for their review. Also, steps were taken to publicize the use of Audio-Visual Aids.

E. *Other Policy Matters.* Other matters considered by the Committee were: a new course numbering system was discussed and the proposal tabled, the report of the Computer Related Sciences Committee was reviewed, the changes in the University tenure regulations were reviewed, the policy concerning maximum credits per term and total credits required was discussed but proposed changes were tabled, the introduction of a "public service concept" into baccalaureate programs was discussed, and the possible development of a policy concerning the University's nomenclature in awarding the bachelor's degree was under consideration as the year ended.

In January, Dr. Joseph P. Giusti was assigned to the Committee as its permanent secretary, replacing Professor C. N. Thiel who had served the Committee so faithfully and effectively in this capacity during the previous four and a half years. In addition to this service, Dr. Giusti also provides valuable assistance to the Committee and its Sub-Committees by making background studies and collecting data needed for the proper conduct of the business at hand. The remainder of the time Dr. Giusti is assigned to Vice President Rackley's office.

The Chairman wishes to acknowledge the fine work done on difficult assignments by the two Sub-Committees, on effective performance of duties on the part of all of the Committee membership, and the cooperation of everyone throughout the year.

*John J. Schanz, Jr.
Chairman*

faculty BULLETIN

Vol. 51, No. 4 July 26, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

LOUISE K KELLY
401 PATTEE LIBRARY

32

faculty BULLETIN

1 Weekly Publication
The Pennsylvania
State University

PERSONNEL MATTERS

Lester P. Hamel has been named acting director of student affairs, filling the vacancy created by the resignation of **Dr. Martin L. Zeigler**, who has been appointed assistant provost and director of Institutional Studies at the University of Illinois. Mr. Hamel, who has been assistant director of student affairs research since 1961, will continue also as research associate. He retired from the U. S. Marine Corps in 1958 with the rank of brigadier general after 22 years service, enrolled at Penn State, and qualified for the bachelor of arts degree in secondary education in 1960. He received the master of education degree with a major in counseling in 1961.

Dr. Zeigler held the position of director since 1959 when the department was established to integrate research activities in the area of student affairs.

Clifford A. Nelson, assistant coordinator of religious affairs, has been named coordinator. He will continue as associate professor of accounting also. He has served on the faculty since 1945 and was named two years ago as assistant coordinator of religious affairs.

Dr. Bruce M. Siegenthaler, professor of clinical speech and audiology, has been named head of the Speech and Hearing Clinic and **Dr. Eugene T. McDonald**, head of the Clinic, who was acting director and director

(Continued on page three)

Dedication

A resolution on the death of George H. Deike, president emeritus of the Board of Trustees, was passed by the executive committee of the Board last weekend.

Mr. Deike died July 16 after serving on the Board since 1925. The resolution read:

"Whereas, Mr. Deike's devotion to the University as an alumnus, his dedication and loyalty in the performance of his many and varied duties as a Trustee, his constructive counsel, and warm friendship, have been an example to all;

"Therefore, be it resolved, that this minute be made a part of the records of the Board of Trustees in grateful recognition of his invaluable service to the University, and to express the sorrow of the Trustees, faculty and staff at his passing; and the esteem with which he is regarded by the members of the Board of Trustees; and be it further resolved that a copy of this minute be sent to his widow, Mrs. Deike."

Pattee plans

Final plans for the addition to Pattee Library were approved by the Board of Trustees executive committee last weekend. In 1961, the G.S.A. authorized funds for the design of the addition and a request has been made for funds to make possible the construction of the unit. The new unit would be built to the west of the existing building.

CIRC representatives chosen

President Walker, Mr. Roger W. Rowland, president of the Board of Trustees, and J. L. Romig, trustee from Kennett Square, will be the three University representatives on the board of directors of the newly formed Commonwealth Industrial Research Corporation.

The Corporation will seek to stimulate industrial research and development and technologically-oriented manufacturing in Central Pennsylvania.

The three Commonwealth members of the board will be John K. Tabor, Secretary of Commerce; Dr. Maurice K. Goddard, Secretary of Forests and Waters; and William P. Young, Secretary of Labor and Industry.

The public at large will be represented by Louis H. Riddle, Jr., president of the Pennsylvania Electric Co.; Paul Reitz, mayor of DuBois; and William Piper, Jr., vice president of the Piper Aircraft Co., Lock Haven.

President Walker was elected presi-

Medical program

A carefully chosen group of students, 27 men and one woman, have started an unusual, experimental program of medical training designed to cut three years from the normal training period for medical doctors.

Cooperating with Jefferson Medical College of Philadelphia, the University has developed the program to speed up the process of preparing future doctors with the view to reducing the time in college and with it the heavy burden of expenses in medical training.

The students, chosen for their intellectual capacity and superior work in high schools, will spend five consecutive terms at Penn State and enroll at Jefferson for the 1964 Fall Semester where they will be taught one course each semester for two years by University faculty members as well as their normal medical courses by Jefferson faculty members. They will return to Penn State for the 1965 Summer Term and re-enroll at Jefferson for the second year of medical work in the fall of 1965. After the 1966 Summer Term at Penn State they will receive their bachelor of science degree and then enter the final two years of medical school in the fall, receiving their doctor of medicine degree in June, 1968.

Penn State will continue with its normal pre-medical program and Jefferson will continue to admit graduates prepared in various undergraduate colleges.

Of the 28 students, three are from out-of-State, one each from California, New Jersey, and New York.

dent of the new corporation and the other officers will be Dr. Goddard as vice president; McKay Donkin, vice president for finance of the University, secretary; and Carl R. Barnes, University controller, treasurer.

CIRC is a nonprofit corporation which will establish an industrial research center or centers at which basic and applied research activities can stimulate the growth in Central Pennsylvania of the new science-oriented industries. Similar corporations are planned in the Philadelphia and Pittsburgh areas.

An early objective of the CIRC will be the reactivation of the Quehanna facility, which is considered valuable for engineering testing and experimentation.

Federal aid studied

PENN STATE is one of 26 colleges and universities cited in a study which appeared in "The Educational Record" for April. The study concerned itself with the effect of Federal funds on higher education and the survey of the institutions was undertaken by the Carnegie Foundation for the Advancement of Teaching, with Nathan M. Pusey, president of Harvard, overseeing the project as chairman of the advisory committee.

Much of the data on which the comparisons and conclusions were based are for the fiscal year, 1959-60, for which Penn State is noted in having received \$3,681,018 of Federal funds expended for departmental research or 9.2 per cent of the "total expenditures for education and general purposes, campus proper." In that year, the largest amount (\$20½ million) of Federal funds for departmental research was provided to the University of Michigan.

The 26 institutions studied ranged in size from Catawba (enrollment 751) to Michigan (28,117) and in grand total of all Federal funds from Catawba (\$2,300) to Massachusetts Institute of Technology (\$65 million). The total Federal funds included departmental research, instruction and public service grants, training grants, and miscellaneous programs such as conferences and symposia, dissemination of scientific information, and consulting service. The instruction and public service category includes instruction, teacher training, agricultural extension, and other public services.

Total \$8 million

In addition to the departmental research grants, Penn State received \$2,777,567 for instruction and public service (largest amount received by 26 institutions), \$84,051 for training grants, and \$10,546 for miscellaneous programs, for a grand total of \$8,913,330. The total amount for departmental research is broken down into project research and general research (which includes agricultural experiment station support in Penn State's case).

The 26 institutions received \$130,352,761 in support of project research in 1959-60, the report says, representing 28 per cent of all Federal money obligated to support research and development at all educational institutions proper, excluding separately organized research centers.

"Clearly, the impact of Federal research funds on most of the cooperating institutions is great," the authors say, "But, impressive as the overall

figures are, they tend to obscure one of the most significant features of Government support: it affects some fields of study far more than it affects others. Hence, in those departments in which Federal support is concentrated, it accounts for a considerably higher proportion of educational and general costs than the overall figures suggest."

Aid specialized

The report cited the case of Notre Dame University, at which Federal research expenditures represented 16.5 per cent of the university's total operating expenditures for educational and general purposes in 1959-60. Actually, Notre Dame reported paying from its own pocket virtually the full cost of research in the College of Arts and Sciences, the College of Commerce, and the Law School. In the Colleges of Engineering and of Science, by contrast, the Federal Government provided about two dollars for every one dollar spent for research by the university itself.

Twenty-eight different Federal agencies sponsored project research in 1959-60 and Penn State received aid from 15 of these, although 44.4% of the funds received were granted by the Department of Defense, 20.5% by the A.E.C., 17.1% by the National Science Foundation and 9.1% from the National Institutes of Health.

Federal support for education and training ("As shown by the self-studies of the universities cooperating in this survey, research support usually means just that," the report says. "With a few specific exceptions any educational benefits resulting from such support are, in the eyes of the Government, by-products only, and not a primary objective") was provided through veterans programs, student loans, fellowship programs, training programs and institutes, and ROTC programs. In that year, Penn State was second of the 26 universities in terms of the numbers of veterans attending under P. L. 550 with 1,400

W. I. Goldberg, physics, \$5,660, National Science Foundation, for undergraduate science education program.

Joseph Marin, engineering mechanics, \$5,340, American Oil Co., aid for graduate student.

V. L. Pass, architectural engineering, and E. R. McLaughlin, engineering research, \$1,300, Pittsburgh Plate Glass Co., for study of solar transmission qualities of fiber glass drapery.

H. I. Tarpley, electrical engineering, \$200, I.B.M. Corp., donation of power supply for research.

E. C. Pollard, biophysics, \$500, U. S. Public Health Service, for fellowship supply grant.

B. A. Whisler, civil engineering, \$700, U. S. Public Health Service, support of master of science trainees in sanitary engineering.

S. C. Sun, mineral preparation, \$9,000, The Carborandum Co., for graduate fellowship in mineral preparation.

L. H. Sommer, chemistry, \$38,600, Dow Corning Corp., for organosilicon chemistry studies.

W. L. Barr, agricultural economics, \$4,000, New Holland Machine Co., for research and graduate training in economics of hay harvesting.

W. H. Powers, continuing education in science, \$630, National Science Foundation, Academic Year Institute for Secondary School Teachers of Physical Science and Mathematics.

R. M. Barnoff, civil engineering, \$206, Federal Housing Administration, donation of equipment.

L. H. Harshbarger, religious education, \$4,400, Westminster Foundation, support of research associate and part-time secretary.

Jean E. Anderson, informal instruction, \$30,040, U. S. Public Health Service, for short-term traineeships under the Professional Nurse Traineeship Program.

W. R. Monat, informal instruction, \$7,070, U. S. Public Health Service, for traineeship grant for course on local government finance.

Thomas Wartik, chemistry, \$75,000, National Science Foundation, for purchase of a mass spectrometer.

A. I. Muan, metallurgy, \$20,200, American Iron and Steel Institute, for equilibrium studies of mineral systems.

A. I. Muan, metallurgy, \$10,000, American Iron and Steel Institute, renewal of fellowship.

W. H. Gotolski, civil engineering, \$3,500, Penna. Dept. of Highways, evaluation of paving asphalt properties.

F. N. Hewetson, Arendtsville, \$500, American Cyanamid Co., fruit disease research.

W. O. Williamson, ceramic technology, \$2,400, Edward Orton, Jr., Ceramic Foundation, for Orton Fellowship.

J. W. Mastalerz and J. W. White, horticulture, \$1,700, New York Florists' Club, purchase of equipment for floriculture research.

(Continued on page three)

ITEMS OF INTEREST

Elected and Appointed

- DAY, R. L., marketing, appointed editorial adviser to the Journal of Marketing, publication of the American Marketing Association.
- MACKENZIE, OSSIAN, Business Administration, appointed to the 1963 Jury of Awards for Outstanding Activities for the annual awards program of the American Society of Association Executives.
- MESEROLF, H. T., English, appointed associate bibliographer of the Modern Language Association of America.
- MOOK, M. A., anthropology, reelected treasurer of the Pennsylvania Folklore Society.
- REMICK, F. J., Nuclear Reactors, elected to the executive committee of the Reactor Operations Division of the American Nuclear Society.
- WHISLER, B. A., civil engineering, appointed to a special committee established by the Penna. Dept. of Health, to study and advise on abatement of mine drainage pollution of the North Branch of the Susquehanna River.

Articles and Papers

- BIRKENMAYER, S. S., Slavic languages, "Hazards that a High-School-Trained Student of Russian is Likely to Face in College Russian Courses," in the Summer issue of The Slavic and East European Journal.
- BYERS, H. E., maintenance and utilities, "Survival Facilities Depend on this Power Plant," in the June issue of College and University Business.
- DUQUET, R. T., and WASHINGTON, WARREN, meteorology, "Data Accuracy in the Lower Stratosphere" and "Atmospheric Adjustment Processes," at the Seminars on the Stratosphere and Mesosphere at McGill University.
- GLANIZ, P. J., veterinary science "Simplified Tube Method for the Preparation of H

- Antigens," in the April issue of the Journal of Bacteriology.
- GREENLAW, P. S., management, "Designing Parametric Equations for Business Games," in the June issue of the Journal of the Academy of Management.
- GOLDBERG, M. H., C.C.L.E., "The Humanities as Heuristics," in the June issue of The CEA Critic.
- REISER, MARTIN, Ogontz DOC, with Waldman, Marvin, Eastern Penna. Psychiatric Institute, "Group Therapy in a Work Adjustment Center" in the July issue of International Journal of Group Psychotherapy.
- REMICK, F. J., Nuclear Reactors, "Operating University Reactors within the Myriad of Local, State, and Federal Regulations," in the June issue of Nuclear News.
- SMITH, W. S., theatre arts, "The Astounding William T. Stead," in the July 3 issue of The Christian Century; also, "Moncure Conway," in the Spring issue of Quaker History.

Lectures and Talks

- KNEEBONE, L. R., botany and plant pathology, "The Mushroom Research Program at Penn State—Past, Present, and Future," before the annual meeting of the American Mushroom Institute at Kennett Square.
- KELLER, E. L., Continuing Education, commencement speaker at the Camp Hill State Correctional Institution.
- VEATCH, JEANETTE, elementary education, "New Dimensions for Elementary Education" lectures series at New York University on "The Identification and Abolition of Classroom Totalitarian Practices in Content Teaching in Education."
- Four topics at the University of Tennessee conference on "Creativity and the Teaching of Mechanics in Language Arts," Aug. 1 and 2.
- "Individualized Reading" at a conference at Southern University, Baton Rouge, La., July 17.
- at Jersey State College reading Conference, July 16.

PERSONNEL —

(Continued from page one)

since 1945. Dr. McDonald was named research professor of speech education which will permit him to devote full time to research and teaching. He is also acting as head of the new department of special education which was established July 1. Dr. Siegenthaler joined the faculty in 1951 after serving as senior clinician at the University of Michigan. He is a graduate of Bowling Green State University and received his master of arts and doctor of philosophy degrees in speech pathology and audiology from the University of Michigan.

Dr. Paul M. Harrison, assistant professor of religion at Princeton University since 1959, has been appointed associate professor of religious studies. He is a 1949 graduate of Penn State in English literature, received his

bachelor of divinity degree from Colgate Rochester Divinity School and doctor of philosophy degree in sociology of religion and Christian ethics from Yale University. He is currently conducting research in the areas of religious institutionalism and its effect on the ecumenical movement and on ethical beliefs and on the relation between social science and the normative discipline of Christian ethics.

Dr. David P. Hoult, research fellow at the California Institute of Technology, has been named assistant professor of aeronautical engineering. He received the bachelor of science in mathematics from Massachusetts Institute of Technology and master's and doctor's degrees in aeronautics from California Institute of Technology. He was research fellow at Cal. Tech and research assistant prior to coming here.

Legislature

President Walker this week expressed the hope that the Legislature will act on appropriations for higher education before adjournment of the present session.

Dr. Walker said:

"Postponement of action on the appropriations bill for Penn State and the state-aided universities will disrupt plans for new programs aimed at the economic growth of the Commonwealth."

"In our own case, for example, based on the best information we had available in the spring, we accepted 1000 additional students for the fall term to meet our obligations to the Commonwealth. We have new research and graduate programs charted that are aimed directly at expanding industry and agriculture."

"In the meantime, a summer term enrollment of 7,500 students is rapidly depleting our financial reserves."

"An extensive delay in passage of the appropriations bill means that we must borrow money to operate in the interim period, and money that should go for education will go instead to pay interest on these loans. We will have no alternative, since state appropriations and tuition charges are our only source of funds for instructional purposes."

FEDERAL —

(Continued from page two)

out of an enrollment of 16,900. The University also reported the greatest number of student loans (combined undergraduate and graduate loans) with 822, although the total amount loaned \$372,005, was fourth high. In training grants, Michigan, Chicago, Tulane and U.C.L.A. all received well over a million dollars, while Penn State received only \$84,051.

In Land-Grant programs of research, Penn State received the most of the five universities listed (Cornell, California, Iowa State, and Wyoming) with \$1,025,279. In approved loans for housing (including those through Dec. 31, 1961), Penn State was listed as receiving \$8,500,000 compared to \$29 million for the U. of California at Berkley, Indiana's \$22.5 million, and Syracuse's \$16.8 million.

The entire issue of "The Educational Record" was devoted to the impact of the Federal Government on higher education. "The Educational Record" is a publication of the American Council on Education, and Lawrence E. Dennis is editor.

CALENDAR

- Aug. 2—Pavilion Theatre production of "Death of a Salesman," curtain time, 8:40 p.m. Runs until Aug. 10.
- Aug. 2—Microbiology Seminar, 1 p.m., Room 206 Patterson. Dr. W. J. Dobrogosz, on "Regulation of Beta-galactosidase formation in *E. coli*—studies on the mechanisms of catabolite repression."
- Aug. 2—Outdoor movie, 9 p.m., HUB lawn.
- Aug. 2—Interlandia Folk dance, 7:30 p.m., HUB ballroom.
- Aug. 2—NDEA Summer Language Institute lecture by Sra. Martha Alfonso, 8 p.m., Little Theatre, Old Main, on "La Musica y el Folklore de Espana."
- Aug. 3—Square dance, 9-12 p.m., HUB ballroom.
- Aug. 4—Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel; Dr. Roy G. Buck, "On Speaking of God, II."
- Aug. 5—Bridge Club, 7 p.m., HUB card room.
- Aug. 6—Lecture by Sir Anthony Blunt, sponsored by department of art and architectural history, 8 p.m., HUB assembly room, on "Roman Art in the 17th Century and Classical Antiquity."
- Aug. 6—University Senate meeting, 3:55 p.m., Room 121 Sparks.
- Aug. 8—Institute in Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. B. E. Ginsburg, University of Chicago, on "Dogs and Wolves."
- Aug. 9—Outdoor movie, 9 p.m., HUB lawn.
- Aug. 9—Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Senate meeting

The University Senate will meet Tuesday, Aug. 6, at 3:55 p.m. in Room 121 Sparks.

PITTMAN EXHIBIT

Art works of students of Hobson Pittman are on display at the HUB gallery and will remain until Aug. 7. Consisting of more than 150 oil paintings and other works, the exhibit represents the efforts of some 35 students from all parts of the country.

CHAPEL

Dr. Roy C. Buck, associate director for social sciences of the Center for Continuing Liberal Education, will be the Chapel speaker Sunday at 9 a.m. in the Helen Eakin Eisenhower Chapel. His topic will be "On Speaking of God, II."

BEHAVIOR

In the series of lectures of the Summer Institute in Animal Behavior, Dr. B. E.

Ginsburg, department of biological sciences of the University of Chicago, will speak Thursday, Aug. 8, at 8 p.m. in Home Economics South. His subject will be, "Behavior of Dogs and Wolves."

SPANISH

Sra. Martha Alfonso, native of Barcelona, Spain, will address the NDEA Summer Language Institute Friday, Aug. 2, at 8 p.m. in Old Main Little Theatre. She will speak on "Musica y el Folklore de Espana," with recorded illustrations. She has published extensively in the field of children's literature in both Spain and Latin America. In her talk she will discuss the origin and development of songs and folk music from various regions of Spain.

Blunt lecture

Sir Anthony Blunt, Distinguished Visiting Professor of art and architectural history, will give two public lectures within the next fortnight.

Tuesday, Aug. 6, he will speak on "The Roman Art of the 17th Century and Classical Antiquity," illustrated.

Wednesday, Aug. 14, he will talk on "Reason and Imagination in Roman Baroque Architecture: Francisco Borromini."

Both lectures will be given in the HUB auditorium at 8 p.m.

Sir Anthony is professor of art history at the University of London and has been surveyor of Queen Elizabeth's pictures since 1952. He has served as director of the Courtauld Institute of Arts since 1947 and has been on the faculties of Trinity College, Cambridge, Warburg Institute, and the University of London.

Construction

The architectural firm of Harbeson Hough Livingston and Larson will prepare plans and specifications for the third addition to the East Residence Halls.

The same firm designed the original buildings in the East Halls area and is completing work on plans and specifications for the second addition. Construction of these buildings, which includes residence halls for 1100 students and a dining hall, will be started later this year, with completion expected in the fall of 1965.

According to present plans the third addition, to house 1,200 students, will be finished in 1966.

Completion of all these projects, plus two units now under construction in Pollock Circle, will increase total residence hall capacity from 9,100 to 12,300 by 1966.

faculty BULLETIN

Vol. 51, No. 5 Aug. 2, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

In the 1980s

A prediction of things to come in the 1980's, as viewed by a special committee which included Dr. Russell B. Dickerson, associate dean of the College of Agriculture, poses some interesting questions for colleges and universities.

Addressed primarily to a "Work Conference of Colleges of Agriculture" a report of the Resident Instruction Task Committee in July suggested ways various colleges could meet the challenges posed by the "conditions and trends which will characterize life in 1980 in the United States, and in other advanced economies of the world." Among the trends noted were the following:

1. Political conditions will affect Man and the State — freedom of movement, religion, and thought will continue; increased centralization of government and Federal control over practically all government spending; farm vote will continue to lose significance; international travel, economic ties, and exchange of ideas will reduce significance of national boundaries.

2. Man will exert greater control in the utilization of his environment—exercise significant control over weather; provide adequate food supplies through continued technological advances; increasingly utilize raw materials, water, and power.

3. Technological advances will create profound changes — automated factories to produce most of the goods we consume; retraining of the labor

(Continued on page three)

PERSONNEL MATTERS

Frank N. Fagan, professor emeritus of pomology, was honored by the Pennsylvania State Horticultural Association last week as one of 19 Pennsylvanians with 50 or more years of service to the State's fruit industry.

A citation was read at the summer meeting of the Association at Treesdale Orchards, Mars, Pa., and a pen set suitably inscribed given to each of those honored.

Mr. Fagan served on the faculty from 1912 until his retirement in 1948 and kept an active interest in the fruit industry.

Born in 1888, Mr. Fagan attended Ohio State University, obtaining a bachelor of science degree in 1910. He was a ranch manager for a short term, then was an inspector for the Ohio State Dept. of Agriculture for two years before coming here.

His principal interest was in orchard fertility.

J. Orvis Keller, director emeritus of General Extension, now Continuing Education, died July 25 at his home at the age of 70. A 1914 graduate of the University in industrial engineering, he was safety engineer for two years following graduation then returned in 1916 as instructor in industrial engineering. From 1919 to 1921 he was associate professor of mechanical engineering at Iowa State College and returned here as associate professor of industrial engineering in 1921. Subsequently he was professor and

(Continued on page three)



Fagan

COLLOQUIUM

A Mineral Industries Colloquium of broad, general interest will be held Thursday, Aug. 15, at 10:30 a.m. in the Mineral Industries Auditorium when Dr. P. G. Harris, department of geology, University of Leeds, England, will speak on "The Recent Volcanic Eruption on Tristan da Cunha (South Atlantic Ocean)" illustrated with both movies and slides.

BLUNT LECTURE

The second lecture by Sir Anthony Blunt, Distinguished Visiting Professor of Art and Architectural History, will be given Wednesday, Aug. 14, at 8 p.m. in the HUB Auditorium. He will speak on "Reason and Imagination in Roman Baroque Architecture: Francesco Borromini."

LEADERSHIP

Chief speaker for the annual National Leadership Development Conference, which will continue until Aug. 16, is Walter M. Arnold, assistant commissioner for Vocational and Technical Education of the U.S. Office of Education. The U.S. Dept. of Health, Education, and Welfare is sponsor of the program, in which problems and situations associated with improvement of instruction are discussed, as well as program obsolescence, increased supervisory effectiveness and other topics.

BEHAVIOR

Dr. Henry A. Finch, professor of philosophy, will address the Summer Institute in Animal Behavior on the subject, "Is Man Unique? A Problem in the Philosophy of Science," Tuesday, Aug. 13, at 8 p.m. in Room 209 Home Economics South. The second lecture next week in this series will be given by Dr. Mortimer Mishkin, National Institute of Mental Health, Bethesda, Md., on the subject, "Cortical Mechanisms in Vision." His lecture will be given Thursday, Aug. 13, at 8 p.m. in 209 Home Economics South.

CHAPEL

Dr. Joseph A. Fankner, instructor in sociology, will be the Chapel speaker Sunday, Aug. 11, at 9 a.m. in the Helen Eakin Eisenhower Chapel. His topic will be, "Popular and Unpopular Four-Letter Words."

Research monographs resumed

The University is resuming publication of its series of research monographs started in 1936 under the general designation "The Pennsylvania State College Studies." Fifteen monographs were issued in the original series, covering a wide area of topics in the field of natural sciences, humanities, social sciences, including applied research in the broadest sense. The last of these monographs appeared in 1944.

The scope of the publication, to be issued as *The Pennsylvania State University Studies*, will remain unchanged. It will continue to cover the broad area of research carried on within the framework of the University by members of its faculty. The series will consist principally of monographs of intermediate length between article and book size, bound as in the previous series in soft covers. The publication will be financed by research funds of the University.

An editorial committee with a representative from each college will be appointed by the Vice President for Research, and will (with the assistance of experts) decide on manuscripts to be published and on matters of general policy. Business administration of the resumed publication, including editing, printing and sale, will be in the hands of the University Press.

Ionosphere satellite

Dr. William J. Ross, associate professor of electrical engineering, and Dr. Erwin R. Schmerling, on leave to the NASA ionosphere program from his position as associate professor of electrical engineering, are both very much a part of the present polar satellite program.

A recent announcement by NASA indicates that, sometime around the end of September, the S-66 Satellite will be launched from the Pacific Missile Range. The S-66, or Ionosphere Beacon Satellite, will have a polar orbit to enable scientists to take electron density measurements across the earth's magnetic field, from the equator to the auroral zones.

Dr. Schmerling has supervised plans for the development and launching of S-66 and Dr. Ross has planned some of the principal experiments. Dr. Ross is a pioneer in the use of satellite beacons for studying the ionosphere.

Penn State will be one of four prime observing stations, the others being at the University of Illinois, Stanford, and the Central Radio Propagation Laboratory of the National Bureau of Standards and in addition to readings at University Park, Dr. Ross and his associates are responsible for observations at Huancayo, Peru.

CALENDAR

Aug. 9 — Pavilion Theatre production of "Death of a Salesman," 8:40 p.m. Concludes Aug. 10.

Aug. 9 — Outdoor movie, 9 p.m., HUB lawn.

Aug. 9 — Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Aug. 10 — Square Dance, 9-12 p.m., HUB ball room.

Aug. 11 — Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Joseph E. Faulkner, instructor in sociology, on "Popular and Unpopular Four-Letter Words."

Aug. 11 — Hillel Graduate Association meeting, 8 p.m., Hillel Foundation. Prof. Samuel L. Sharp, visiting professor of political science, American University, on "A New Look at Soviet Foreign Policy."

Aug. 12 — Bridge Club, 7 p.m., HUB card room.

Aug. 13 — Institute of Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. Henry A. Fench, professor of philosophy, on "Is Man Unique? A Problem in the Philosophy of Science."

Aug. 13 — Physics Colloquium, 4:30 p.m., Room 117 Osmond. Dr. Richard Fedder, Washington University, St. Louis, on "Heterodyne Properties of a Paramagnetic Spin System."

Lectures

Dr. Hubert L. Barnes, assistant professor of geochemistry, will give three lectures and observe work in his field while in Europe from Aug. 15 to Oct. 6, sponsored in part by a National Science Foundation travel grant.

In Prague, Czechoslovakia, he will lecture on "Environmental Limitations to Mechanisms of Ore Transport" as guest of the organizing committee for a Symposium on Problems of the Origin of Post Magnetic Ore Deposition, which is to be held jointly by the International Geochemical Society, the Czechoslovakian Academy of Sciences, the Geological Survey of Czechoslovakia, and Charles University. Many Russian scientists will attend the meeting.

He will also lecture before the Austrian and German Mineralogical Societies and before the Institute of Physical Chemistry and Electrochemistry in Germany.

Aug. 13 — Opening night of Pavilion Theatre production of "Come Blow Your Horn," 8:40 p.m. Runs until Aug. 24.

Aug. 14 — Lecture by Sir Anthony Blunt, distinguished visiting professor of art and architectural history, 8 p.m., HUB Auditorium, on "Reason and Imagination in Roman Baroque Architecture: Francesco Borromini."

Aug. 15 — Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Theodore Schulz, I.B.M. Research Center, Yorktown Hts., N.Y., on "Exact Solution of the Ising Model."

Aug. 15 — Executive Committee of A.A.U.P. meeting, Room 124 Sparks, 7:30 p.m.

Aug. 15 — Institute of Animal Behavior lecture, 8 p.m., Room 209 Home Economics South. Dr. Mortimer Mishkin, National Institute of Mental Health, on "Cortical Mechanisms in Vision."

Aug. 15 — Mineral Industries Colloquium, 10:30 a.m., Mineral Industries Auditorium. Dr. P. G. Harris, department of geology, University of Leeds, England, on "The Recent Volcanic Eruption on Tristan da Cunha (South Atlantic Ocean)" illustrated with movies and slides.

Aug. 16 — Outdoor movie, 9 p.m., HUB lawn.

Aug. 16 — Interlandia Folk Dance, 7:30 p.m.

Pavilion theatre

The Neil Simon play, "Come Blow Your Horn," will be the concluding production of Pavilion Theatre, opening August 13 and continuing through Aug. 24. Tickets may be obtained at the box office or reserved by calling UN 5-6309.

The 1961 Broadway production of the comedy had a long run. The story concerns two brothers and one old-fashioned pair of parents. The younger brother leaves home to live in the bachelor apartment of the older brother and the trouble starts, for Poppa, who runs an artificial fruit business, and for Momma, who can make a problem out of placing an ordinary telephone call.

Leon B. Stevens will portray Poppa, Charlotte Jones will play Mrs. Baker. The sons Alan and Buddy will be played by John McKay and Richard Davis.

Goniometer

An instrument, known as a goniometer and used to measure the angles between light-reflecting surfaces, has been constructed by the technical services department of the College of Engineering for the Penna. Dept. of Highways.

Commissioned by the Department at a cost of \$12,000 for use in conducting tests of highway flashers and safety lights, the goniometer was designed by Kenneth R. Davenport, associate professor of mechanical engineering, and the construction was supervised by William M. Glass, director of technical services in the College. It was modeled after a machine in the National Bureau of Standards.

COURSE OFFERINGS

Effective with the Fall Term 1963, faculty advisors or students desiring information pertaining to proposed course offerings at the several Commonwealth Campuses for a particular term may obtain such data through the University Scheduling Office. In the event that all of the details necessary in any individual situation are not on file at the time the inquiry is made, the Director of the Commonwealth Campus in question will be contacted by the University Scheduling Officer for such information as may presently be available.

No change has been made in the procedure to be followed by students at the University Park Campus who wish to attend one of the Commonwealth Campuses for an specified term, nor in obtaining approval of the program of courses to be scheduled at that campus.

(Continued from page one)

force will be required, perhaps more than once per lifetime of the worker; worldwide communication by television and videotelephone will be common; information retrieval will be solved; supersonic commercial aircraft and new urban transportation will be available; private automobiles will be replaced by mass transportation for job commuting; biological engineering is a real possibility and biological control of many bodily functions may be achieved.

4. Demographic factors will change substantially — at least three, and probably four, generations will be living simultaneously; life expectancy will continue to rise possibly to 75 and 80 years for men and women respectively; demand by adults for college level education will increase; a shorter work week of perhaps 25 to 30 hours will provide more leisure time and sports activities will be more highly institutionalized.

Retirement age of 50 or 55 will be common; percentage of the population in the labor force, white collar jobs included, will shrink and service occupations will increase; major increase in metropolitan population density will occur and shrinkage of small, isolated communities will continue; apartment-house life will predominate in all cities.

Foreign influences on our culture will grow; machine translation of languages for published materials will be possible and two or three national languages will serve as international "service" languages.

Development of new recreational areas will consume a growing amount of Federal money; institutionalizing of the arts will accelerate; remaining diseases will be under control and programmed diagnoses at large clinics will be utilized more effectively; more effective procedures for changing and influencing human behavior and mental processes will be possible.

The Committee which prepared the report, of which the trends noted above are only a small part, included Dr. Henry S. Brunner, U. S. Dept. of Health, Education, and Welfare and former head of Penn State's department of agricultural education; Dr. E. J. F. Early, Colorado State University; Dr. Randall J. Jones, Oklahoma State University; Dr. Neal D. Peacock, University of Tennessee; and Dr. Louis M. Thompson, Iowa State University.

The Committee noted that some changes in the present objectives as

well as methods in agricultural instruction in Land-Grant colleges and universities will be necessary to meet the trends predicted.

"Presently, the trend on the campuses of many land-grant institutions is shifting to programs for upper-class and graduate students," the report said. "First- and second-year students in increasing numbers are starting somewhere else. The number of students aspiring to and continuing in graduate work is increasing . . . Individual colleges of agriculture report that 35 to 65 per cent of their graduating seniors are being admitted to graduate schools."

The Committee also noted that:

"To prepare graduates . . . we must provide for greater flexibility in the curriculum. Somewhat paradoxically, in order to insure this flexibility, it is becoming increasingly necessary for general or liberal education to be structured into the curriculum. With basic social, physical, and biological science studies, the student will be assured flexibility in choice of a specific field of work."

Suggesting that with more leisure time, continuing education programs will play an increasingly important role, the Committee says, "The only way to avoid a mass of adult delinquents beyond the productive years of employment is to provide ways and means for a continuing education during retirement."

Another point made by the commit-

PERSONNEL —

(Continued from page one)

head of the department of industrial engineering, professor and head of the department of engineering extension, assistant to the president in charge of extension, and director of General Extension, until his retirement in 1953. Since his retirement he has been very active and for the past four years taught industrial management at Hofstra College.

Dr. Donald T. Laird, director of the Computation Center, has been granted a leave of absence for nine months, beginning Sept. 16, to serve as program director for Computer Science in the National Science Foundation, Washington, D.C.

Charles Forney, Jr., assistant professor of engineering research, has been appointed acting director of the Computation Center. For the past two years, while assistant professor of civil engineering, he has served part time on the Computation Center staff, doing research in systems programming.

tee was that there appears to be a trend toward consolidation of specialized departments into larger administrative units, citing as an example, the bringing together the areas of agronomy and horticulture into a broad "plant science" curriculum.

"This example," the report continues, "points the way again for greater flexibility in a student's program. It also opens the way for some real objective action with respect to cooperative programs between nearby states."

"Every land-grant institution cannot justify a College of Agriculture that is 'all things to all people' . . . It is reasonable that a cooperative arrangement could be worked out whereby one college of agriculture among several states within a region would provide undergraduate and/or graduate programs" in certain fields.

Relative to the students themselves, the report contends that the colleges of agriculture should plan to protect top-scholars from antiquated and inappropriate regulations concerning their academic programs.

"Instead, let us say to the student, depending on his proficiency, interests, and desires, that we expect him to be proficient in what he wants to study. Then, with careful advising, permit him to move ahead under his own energies through independent study, including programmed instruction, closed-circuit television, and library, optional class attendance, comprehensive examinations, and the like."

Dr. George W. Gorsline, assistant professor of agronomy, has assumed a full-time position in the Computation Center, and will continue to hold his academic rank. A member of the faculty since 1948, he will continue teaching and research in agronomy, but at the Center will assist faculty, students, and others using the Center to prepare programs and organize data for the computer.

Dr. Walter L. Ferree, associate professor of history at the Ogontz Campus, will do research on the New York Democratic Party, 1847-54, while on leave from Sept. 22 to March 23. He is preparing a book, "Division and Reunion: The New York Democracy."

Adolf G. Weltmann, president of National Psychology Association for Psychoanalysis, is serving as visiting professor of art education for the last five weeks of the Summer Term. He has served as instructor in the Graduate School of Education of City University of New York and as a psychotherapist, working with children, at Mt. Sinai Hospital.

GRANTS

O. F. Tuttle, geophysics and geochemistry, \$75,000, National Science Foundation, leucocratic rocks.

L. F. Herzog, geophysics and geochemistry, \$3,037, National Science Foundation, Be-10 dating studies.

R. F. Gentry, veterinary science, \$2,000 Merck and Co., differential diagnosis of avian diseases.

B. W. McCormick, aeronautical engineering, \$49,150, U. S. Army Research Office, aerodynamic problems of V/STOL aircraft.

J. M. Duich, agronomy, \$4,000, Penna. Turfgrass Council, soil modification.

Dean Asquith, Arendtsville, \$1,000, Monsanto Chemical Co., fruit insect.

H. B. Couch, plant pathology, \$1,500, Penna. Turfgrass Council, turfgrass disease.

F. H. Lewis, Arendtsville, \$250, Stauffer Chemical Co., fruit disease.

William Spackman, geology, \$2,000, Texaco, Inc., catalogue of fossil spores and pollen.

J. J. Schanz, Jr., mineral economics, \$1,000, Gulf Oil Corp., departmental assistance grant.

F. A. Weed, plant pathology, \$2,500, U. S. Forest Service, forest tree diseases.

Adam Anthony, zoology and entomology, \$1,870, Centre County Heart Association, adaptive reactions in the cardiovascular system.

E. S. Lindstrom, bacteriology, \$19,000, National Science Foundation, chromatophoral photometabolism of *rhodospirillum*.

David Margolis, mechanical engineering, \$23,013, U. S. Army Research Office, curved mixing flows.

T. S. Spicer, mineral preparation, \$400, Babcock and Wilcox Co., grindability machine for studies of factors affecting the grindability of coal.

Rustum Roy, Materials Research Laboratory, \$17,416, U. S. Office of Naval Research, equipment for crystal research.

J. C. Johnson, Ordnance Research Laboratory, \$1,890,893, U. S. Dept. of the Navy, for operations of the Ordnance Research Laboratory.

L. G. Austin, fuel technology, \$4,352, U. S. Army Materiel Command, for theoretical and experimental analysis of basic fuel cell data.

G. F. Wislicenus, Ordnance Research Laboratory, \$115,100, N.A.S.A., study of static and dynamic tension and cavitation inception in liquids.

A. H. Waynick, electrical engineering, \$2,000, Bendix Corp., for research in electrical engineering.

M. A. Williamson, Engineering, \$16,000, Westinghouse Educational Foundation, for George Westinghouse Professorship.

J. A. Cox, Erie County laboratory, \$1,000, Cooperative GLF, general support of research.

E. F. Osborn, vice president, \$75,000, National Science Foundation, institutional grant for science.

F. N. Hewetson, Arendtsville, \$500, American Cyanamid Co., for fruit pest control program.

M. R. Fenske, chemical engineering, \$1,000, Pennsylvania Refining Co., support of Petroleum Refining Laboratory.

J. H. Hoke, metallurgy, \$12,366, U. S. Atomic Energy Commission, for studies of high strength steels.

C. R. Carpenter, UDIS, \$9,660, National Science Foundation, for publication "Naturalistic Behavior of Non-Human Primates."

E. C. Pollard, biophysics, \$79,000, U. S. Public Health Service, for training program in biophysics.

D. E. Davis, zoology, \$27,000, U. S. Public Health Service, for training program in microbiology.

L. F. Herzog, geophysics and geochemistry, \$4,917, U. S. Public Health Service, for studies of isotopic analysis of Carbon-13 labeled cholesterol.

W. H. Powers, continuing education in science, \$700, Sun Oil Co., for support of two science teachers in summer institute program.

Vladimir Vand, P. J. Wyllie, and O. F. Tuttle, mineralogy and geochemistry, \$61,563, N.A.S.A., for structural and mineralogical study of meteorite impact craters.

C. E. Thurber, political science, \$26,500, Ford Foundation, study of the professional roles of Americans overseas.

J. F. Krawiec, clothing and textiles, \$300, Charlevoix-Monesson Hospital, for the Institutional Laundry Program.

—\$300, Chestnut Hill Hospital, for Institutional Laundry Program.

W. A. Weyl, M. I. Experiment Station, \$13,000, Glass Container Industry Research Corp., for study of basic relation between glass and metals with respect to molding.

G. E. Rindone, ceramic technology, \$4,500, Pittsburgh Plate Glass Foundation, renewal of fellowship.

W. A. Weyl, M.I. Experiment Station, \$5,000, Glass Container Industry Research Corp., preparation of material for second volume on glass constitution.

F. W. Peikert, agricultural engineering, \$1,200, Penna. Electric Association, studies of water purification.

—\$440, Colonial Beef Co., research on frozen food quality determination techniques.

A. R. Grove, botany, \$200, Dillon Research Fund, Penna. Flower Growers, special research.

A. S. Hunter, agronomy, \$1,500, Penna. Ag-Lime Assoc., studies of fertilizer needs of major annual field crops in Penna.

P. L. Walker, fuel technology, \$4,720, Speer Carbon Co., for fellowship.

F. A. Hummel, ceramic technology, \$2,550, The Pfaudler Co., for fellowship.

H. A. Panofsky, meteorology, \$10,680, U. S. Weather Bureau, for infrared satellite data and meteorological variables research.

W. E. Meyer, mechanical engineering \$1,500, U. S. Army, for bibliography on compression ignition engine low temperature problems.

faculty BULLETIN

Vol. 51, No. 6 Aug. 9, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

Student data

THE Office of Student Affairs Research has initiated a project designed to systematize the gathering, storage, and dissemination of basic information about students to further aid administrators, advisors and others.

"Everyone who works with individual students," says Lester S. Hamel, acting director of the Student Affairs Research Office, "needs to know something about him as a person. Generally speaking, the more one knows about him, the more effectively he can be helped, either directly or through providing him with or referring him to the services best suited to his needs.

"At Penn State, in order to get this job done, we have resorted to procedures which have led to a proliferation of questionnaires, forms, IBM cards, and interviews required of the students. Most of these duplicate in one way or another."

It is the hope of the Student Affairs Research office to centralize in the Office of the Registrar the responsibility for establishing and maintaining a record of biographical, background, and current-status information, as well as academic record, for each student and to keep the record current, routinely distributing the information to other agencies that need it.

During the Fall Term, Hamel explains, a trial run will be made with all incoming freshmen.

The basic information will be gathered from the Admission blank and from the Information Blank com-

(Continued on page four)

Appropriation delay

University to move ahead

The University will move ahead with its plans for expansion of research and education programs in anticipation of passage of a \$25,000,000 State appropriation, President Walker said this week.

The Legislature adjourned Aug. 3 without taking action on any "non-preferred" appropriations, including the Penn State appropriation. The University will be forced to borrow money to operate the general instructional program until the appropriation bill is passed.

He pointed out that money paid for interest would have to be deducted from planned educational programs, since it is not reimbursable.

The University will defer a substantial portion of expenditures until after January 1, as a means of keeping interest costs at a minimum. Dr. Walker has asked all departments to limit, if possible, their expenditures during the six-month period ending December 31, 1963 to 40 per cent of the annual total.

In anticipation of favorable legislative action on the \$25,000,000 State appropriation, President Walker said the University would go ahead with its plans to:

1. Admit 1,000 additional new students this fall, including 200 additional graduate students.

2. Begin new graduate research programs, particularly in areas vital

to the Commonwealth's economic progress.

3. Grant merit pay increases to faculty to enable Penn State to maintain its momentum as one of the fastest-rising universities in the Nation.

Merit pay increases for faculty and staff will be made retroactive to July 1 when the appropriation bill is signed into law. The retroactive portion of the increase will be paid in a separate check at the next regular payroll after the bill is signed.

Faculty promotions recommended for July 1 will be effective as of that date.

Pay increases were granted to all classified employees (clerical, technical—service and maintenance personnel) on July 1 and are now being paid.

"The University will use every available means of limiting the
(Continued on page four)

Promotions

Promotions, for faculty members at the University, effective as of July 1, were announced Wednesday by President Eric A. Walker.

They included:

To rank of Professor: Howard D. Bartlett, agricultural engineering; Charles T. Davis, English; Dagobert de Levic, German; John A. DeNovo, American history; Douglas J. Donahue, physics; Robert F. Fletcher, vegetable crops extension; Anthony H. Foderaro, nuclear engineering.

Aline H. Frink, mathematics; Herbert C. Gilmore, dairy science extension; John L. Lumley, aeronautical engineering; John D. McAulay, education; Kenneth V. Manning, physics; Barnes W. McCormick, Jr., aeronautical engineering; Vaclav E. Mares, economics; J. Mitchell Morse, English.

Stanislaw G. Myowka, mathematics; William W. Pratt, physics; William J. Ross, electrical engineering; Walter L. Thomas, agronomy; Thomas A. Wiggins, physics; Leonard N. Zimmerman, bacteriology; Richard E. Zindler, engineering research.

To rank of Associate Professor: Edward A. Adams, art; Gordon L. Baker, physics (Behrend); Walter L. Baker, engineering research; Hubert L. Barnes, geochemistry; Robert M. Barnoff, civil engineering; Edward D. Bellis, zoology; Ernest L. Bergman, plant nutrition; Frank L. Blue, Jr., civil engineering.

Paul H. Cutler, physics; Edward A. Dreis-

bach, engineering (Wilkes-Barre); Howard E. Dyche, Jr., engineering (McKeesport); Dorothy H. Eshleman, English (Ogontz); Anthony J. Ferraro, electrical engineering; Frederick C. Fliegel, rural sociology.

John M. Harrison, journalism; Henry B. Harvey, Jr., engineering research; Walter H. Hill, architecture; Charles J. Hillson, botany; Howard S. Hofman, psychology; E. Arthur Hungerford, speech; Thomas Iwand, economics; Willred T. Jewkes, English; John Kolesar, engineering (Wilkes-Barre); James M. Lawther, engineering research; Samuel S. Lestz, mechanical engineering.

Gene M. Love, agricultural education; Frank B. Moore, engineering; H. Louis Moore, agricultural economics extension; John S. Nisbet, electrical engineering; Helen W. Nutting, chemistry (Ogontz); Bernard S. Oldsey, English; Patricia M. Overdeer, mathematics (Ogontz); Kenneth J. Polakowski, landscape architecture.

William F. Prokasy, psychology; Duane R. Prosser, engineering (McKeesport); Leonard F. Raver, music; Warren C. Robinson, economics; Stanley H. Rosen, philosophy; Robert F. Schmalz, geology; Frank W. Schmidt, mechanical engineering; Ralph M. Seeley, Jr., engineering research.

James L. Starling, agronomy; Robert Steranko, mining engineering; Leroy A. Swinberg, engineering (Wilkes-Barre); Albert S. Tsugawa, philosophy; Francis J. Vastola, fuel technology; Alvi O. Voigt, agricultural economics extension; Arthur L. Williams, insurance; Dwight E. Younkin, animal husbandry extension.

SENATE MINUTES



MEETING OF AUGUST 6, 1963

The University Senate met at 3:55 p.m. on Tuesday, August 6, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the July 2, 1963 meeting were approved as printed in the Faculty Bulletin for July 12, 1963. One hundred forty-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Martha Adams (Al Stull), Gregory Ain (A. W. Hajjar), M. E. Bell (H. K. Henisch), Della Durant (Neil Fringer), J. H. Ferguson (W. R. Monat), Eugene Goodwin (R. M. Pockrass), D. R. McClay (N. K. Hoover), B. W. McCormick, Jr. (D. P. Hoult), R. K. Murray (R. W. Green), N. A. Norton (George Tsoumis), Carl Volz (G. A. Etzweiler), R. H. Wherry (Rocco Carzo, Jr.), G. F. Wislicenus (J. W. Holl), and H. D. Wright (C. P. Thornton).

New Senators

A letter was read from P. W. Bixby, Assistant Dean of the College of Education, stating that Earl Edgar will represent F. A. Miller while he is on leave during the Fall and Winter Terms of the academic year 1963-1964.

A letter was read from R. H. Jahns, Dean of the College of Mineral Industries, that W. O. Williamson had been elected to fill the unexpired term of L. H. Lattman, 1963-1965. Mr. Lattman has been elected as a senator for the Graduate School.

A letter was read from F. L. Carnahan of the College of Science that the following persons had been elected as senators:

1963-1964	1963-1965
Adam Anthony	C. O. Clagett
N. C. Deno	M. F. Mallette
E. H. Ludwig	Harald Schraer
P. S. Skell	L. N. Zimmerman
1963-1966	
H. B. Curry	
Orrin Frink	
H. L. Krall	
E. W. Mueller	

A letter from H. K. Schilling, Dean of the Graduate School, stated that Rosemary Schraer had been elected to replace H. D. Zook for his one remaining year of service, 1963-1964; and C. T. Davis to replace J. H. Britton while he on leave during 1963-1964.

New Committee Memberships

The secretary read the following report of the Senate Committee on Committees regarding appointments to the various committees caused by the election of senators from the College of Science. These appointments had the approval of President Walker.

ACADEMIC STANDARDS

F. W. Kniffin to replace J. R. Hayes as chairman

Deborah Austin to replace F. W. Kniffin as vice chairman

M. F. Mallette to serve as a new member of the committee

CONTINUING EDUCATION POLICY

M. E. John to replace A. W. Hutchison as chairman

F. T. Hall, Jr., to replace M. E. John as vice chairman

R. G. Cunningham to replace H. S. Brown

COURSES OF STUDY

N. C. Deno to replace J. A. Dixon

EDUCATIONAL POLICY

J. B. Bartoo to replace C. I. Noll

FACULTY AFFAIRS

L. N. Zimmerman to replace Thomas Wartik

R. D. Ayoub to replace H. D. Zook

LIBRARY

E. P. Hexner to replace A. L. Williams

MILITARY INSTRUCTION

E. R. Queer to replace R. D. Pashek as chairman

A. L. Williams to replace E. R. Queer as vice chairman

E. H. Ludwig to replace C. I. Noll

SCHOLARSHIPS AND AWARDS

Harald Schraer to replace L. H. Sommer

STUDENT AFFAIRS

C. I. Noll to replace R. G. Ascah as vice chairman

Subcommittee on Discipline

C. I. Noll to replace R. G. Ascah

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He made two corrections to the report as follows:

On page 3, No. 374 (*Journ* 406). The title should read: "Evaluation and Uses of Mass Communications Research."

On page 6, No. 555 should be (P N G 382) instead of (P N G 410).

Mr. Shelley commented on the extensive report, which is especially significant in that it represents academic implementation of the organizational changes that have occurred in the University: the reconstitution of some programs of study and the transfer of others from one College to another. He stated that approval of the Committee's proposals will carry recommendation to the Board of Trustees of several new degrees, of three types: one for a program that is entirely new (Speech Pathology and Audiology); one for a program in the College of Agriculture that is being converted from a major to a curriculum (Forestry); and five for programs most recently majors in the College of Agriculture that are being converted into curriculums in the College of Science (Biochemistry, Microbiology, Botany, Medical Technology, and Zoology).

Mr. Shelley stated that Item II was for the information of the Senate. He moved adoption of Items 1A, 1B as corrected, and 1C. The motion was seconded. J. R. Bloom questioned the use of the word "Pathology" in the proposals involving Speech Pathology and Audiology. The motion was passed.

R. W. Brewster, acting for the Chairman of the SENATE COMMITTEE ON COMMITTEES, presented a change to Article II.

(Continued on page four)

PDK meeting

Dr. Joseph E. Faulkner, instructor in sociology, will be the speaker at the meeting this evening (Friday) of the local chapter of Phi Delta Kappa, international professional fraternity in education, at the HUB dining room "A."

He will speak on "Role — Conflict and the Educator." New members who have not been officially initiated will be admitted to the fraternity at the same meeting.

Europe talks

Dr. James R. Nichols, associate professor of dairy science, will give several lectures in European countries between Aug. 31 and Sept. 7.

He will take part in the World Conference of Animal Production in Rome, Italy, where he will discuss the growth efficiency and carcass characteristics of Holstein-Friesian dairy bulls and dairy steers. He will also lecture one week in Italy on dairy beef production in the U. S. and prior to the Conference will confer in England with officials of the national milk marketing board.

A grant from the American Holstein-Friesian Association is aiding in the trip during which Dr. Nichols will visit countries where research similar to that at Penn State is carried on.

Recording

Denis Stevens, distinguished visiting professor of music during the last academic year, will record a series of programs for the British Broadcasting Co. while in London preparing to return to this country with his valuable music library. The programs will range over 500 years of music.

Stevens will also act as technical and musicological supervisor for recording of a disc by Dr. Leonard Raver, Chapel organist, who has remained in Europe after completing a tour with the Chapel Choir. The recording, to be made at Fenton House, Hempstead, will consist of music by the Irish composer, Thomas Roseingrave, contemporary of Handel and Scarlatti. Fenton House is the repository of the Benton Fletcher Collection of early keyboard instruments.

The music of Roseingrave will be published by the University in the new "Penn State Music Series," of which Stevens is general editor.

Stevens has been appointed musicological consultant by His Master's Voice, Capitol Records, for an album illustrating musical forms.

PERSONNEL MATTERS



Robert P. Meahl, professor of ornamental horticulture, has been honored by the All America Awards Committee for his outstanding contributions to the field of floriculture in directing the work of the University's floral gardens.

The gardens since 1949 have been one of the country's leading flower testing gardens and under Meahl's direction flower seed and varieties from all over the U.S. as well as from Japan, Italy, Denmark, Holland, France, West Germany, England, and Canada are tested each year.

Meahl, who was appointed instructor in nursery industry in 1931, took charge of the test gardens in 1949. He is an official All America Flower and Rose Judge.

Dr. Kai Gudbrand Grjotheim, head of inorganic chemistry at the Technical University of Norway, will spend the year of July, 1964, to July, 1965, at Penn State teaching and conducting research as a Senior Foreign Scientist Fellow, under a program recently initiated by the National Science Foundation. He is internationally known for his contributions to the thermodynamics of ionic melts. He will be with the department of metallurgy.

ITEMS OF INTEREST



Articles and Papers

ALMQUIST, J. O., Dairy Breeding Research Center, with **AMANN, R. P.** dairy physiology, and **HALE, E. B.**, animal behavior, studies on reproductive development and performance of dairy bulls at the annual meeting of the American Society of Animal Science.

ADAMS, R. S., extension dairy, **HUTTON, R. F.**, farm management, and **POTNAM, D. N.**, extension dairy, an improved method of electronically computing grain feeding recommendations for individual cows at the annual meeting of the American Society of Animal Science.

BARTOO, R. A., forestry, with **GAMBLE, H. B.**, "An Economic Comparison of Timber and Wildlife Values on Farm Land," in the May issue of the *Journal of Farm Economics*.

FORSYTH, KENT, history, "The Soviet Silent Vote in Finnish Politics," in the Summer issue of the *International Journal*.

FREAR, D. E. H., agricultural biochemistry, and **ASQUITH, DEAN**, Arendtsville, "Spray

Deposits on Apple Trees Following Applications by Three Types of Sprayers," in the June issue of the *Journal of Economic Entomology*.

GINGERICH, KARL, chemistry, "Relations between Ionic Radii and Transformation Temperature in Rare Earth Niobates" and "Thermal Expansion and Its Relation to Bonding of TiP, ZrP, and HfP" at the 12th annual conference on the Applications of X-Ray Analysis.

HORANSON, J. F., veterinary science, "A Modern Approach to Control of Abortion and Still-birth in Swine," a report of the findings of **DUNNE, H. W.**, veterinary science, at the annual meeting of the American Veterinary Medical Association.

KNOTT, A. W., architectural engineering, "The Improvement of Conventional Construction for Resistance to Low Intensity Blast Forces," presented at the Swiss Federal Institute of Technology, in Zurich.

KRADEL, D. C., veterinary science, "Nutritional Muscular Degeneration in Livestock," at the annual meeting of the American Veterinary Medical Association.

LUMLEY, J. L., aeronautical engineering, "An Approach to Multiple Value Random Functions," before a seminar of the department of thermal sciences and fluid mechanics at the State University of New York at Stony Brook, N. Y.

McKEE, G. W., agronomy, "Use of a Color Temperature Meter to Characterize Light Quality in the Field," in *Crop Science*.

NEYHART, A. E., Institute of Public Safety, "Tank Fleet Operator's School," in the June issue of *Petroleum Marketer*.

—"Taxi Fleet Operators Go to College," in the June issue of the *American Taxicab Association News*.

—"Test Your Truck-Driver Applicants," in the June issue of the *National Association of Bedding Manufacturers* magazine.

RANK, D. H., physics, "Quadrupole Spectrum of Hydrogen" at the Royal Society of Canada, in Quebec.

—"Astrophysical Implications of the Hydrogen Quadrupole Spectrum" at the 12th International Colloquium of Astrophysics, University of Liege, Belgium.

—"Hydrogen Halide Rare Gas Complexes" at the Laboratoire de Haute Pressions, Bellevue, France.

Elected and Appointed

BRATZLER, J. W., animal nutrition, elected president, North Atlantic Section, American Society of Animal Science.

HARTMAN, H. L., Engineering, appointed to the Selection Committee for the Visiting Engineer Program of the American Society for Engineering Education.

RANK, D. H., physics, appointed chairman of Section III, of the 12th International Colloquium of Astrophysics, University of Liege, Belgium.

SEVİK, MAURICE, aeronautical engineering, appointed a member of the Hydroelasticity Panel of the Society of Naval Architects and Marine Engineers.

TAFT, R. W., JR., chemistry, appointed a member of the National Academy of Sciences-National Research Council Committee on Basic Research Advisory to the U.S. Army Research Office at Durham, N. C.

Lectures

GENTRY, R. E., veterinary science, poultry diseases, for a post-graduate course for Mexican and Central American veterinarians in Mexico City, Aug. 12 to Sept. 13, sponsored by F.A.O.

GERHOLD, H. D., forestry, "Integrated Selection for White Pine Weevil Resistance and Its Components," at the World Consultation on Forest Genetics and Tree Improvements, in Stockholm, Sweden, Aug. 20-30.

MORGAN, BEN, extension animal husbandry, agriculture's role and problems in a changing animal agriculture, at the annual meeting of the American Society of Animal Science.

JOHNSTONE, H. W., JR., philosophy, "Argument and Human Nature," before the Speech Association of America annual meeting Aug. 18-21.

—"Philosophical Argumentation" at the 13th International Congress of Philosophy at Mexico City, Sept. 7-14.

GRANTS



C. L. Hosler, meteorology, \$35,250, Chantute Technical Training Center, U. S. Air Force, for officer weather training.

Charles Cofer, psychology, \$18,397, Office of Naval Research, for study of learning and retention of meaningful materials.

J. A. Jantzer, Continuing Education, \$1,679, Penna. Dept. of Public Welfare, for institute on police handling of children and youth.

H. A. Neuberger, meteorology, \$1,220, U. S. Weather Bureau, terminal forecasting from a small-scale network.

R. A. Pursell, botany, \$5,000, National Science Foundation, for studies of phyto-geographical affinities of mosses of the northern and northwestern Gulf coast.

H. G. Richey, Jr., chemistry, \$22,900, National Science Foundation, aliphatic carbonium ions.

H. A. Panofsky, meteorology, \$10,680, U. S. Weather Bureau, for infrared satellite data and meteorological variables research.

W. E. Meyer, mechanical engineering \$1,500, U. S. Army, for bibliography on compression ignition engine low temperature problems.

W. E. Meyer, mechanical engineering, \$4,000, U. S. Army, for investigations in controlled multi-fuel combustion.

J. S. Nisbet, electrical engineering \$159,618, N.A.S.A., for theoretical and analytical research on electron densities in ion.

W. S. Dichtorn, nuclear engineering, and **P. L. Walker**, fuel technology, \$87,463, U. S. Atomic Energy Commission, for studies of the mechanisms of fission gas diffusion in graphite.

STUDENT —

(Continued from page one)

pleted by the student before his pre-registration testing and counseling. The data will be transmitted to magnetic tape and machine-printed to a form, "Student Biographical Data," which is distributed to the Division of Counseling, the dean of the respective college, the Office of Student Aid, and the Registrar. The Information Blank itself goes to the Dean of Men or Dean of Women or to the Commonwealth Campus director, as appropriate.

Prior to each registration, data subject to change is printed from the tape to a "Data Verification and Change Report" form and given to the student for completion and signature. It is planned that this report will reach the student through his advisor in the same way as does his printed advance registration schedule, so that information is available to the advisor and so that the registration process is not delayed. Changes or additions will be processed, the master tape corrected, and reports of changes distributed to those having the biographical data sheet.

The system will be initiated with the entering freshman class this fall; however, existing procedures will also be continued for Fall Registration to insure a smooth transition. Some annoying duplication may result, Hamel explains, so that students should be made to understand that the system will in the long run reduce the harassment of students, facilitate administration, and improve the reliability and availability of information.

APPROPRIATION —

(Continued from page one)

amount of money to be borrowed," Dr. Walker said.

He noted, however, that University funds from other sources and earmarked for specific purposes could not be diverted to replace the State appropriation, even for temporary periods. The University, for example, receives about \$15,000,000 annually from the Federal government for specific research and educational purposes. This money is not available for general instructional purposes, even on an emergency basis. The same is true for industrial grants that support large numbers of graduate fellowships in the University.

Tuition and State appropriations are the only substantial funds available for general instructional purposes. All tuition funds will be committed before borrowing begins.

CALENDAR



Aug. 16—Pavilion Theatre production of "Come Blow Your Horn," 8:40 p.m., Continues until Aug. 24.

Aug. 16—Phi Delta Kappa initiation dinner, HUB dining room.

Aug. 16—Outdoor movie, 9 p.m., HUB lawn.

Aug. 16—Interlandia folk dance, 7:30 p.m., HUB ballroom.

Aug. 17—Square dance, 9-12 p.m., HUB ballroom.

Aug. 18—Chapel Service, 9 a.m., The Chapel. Dr. A. H. Reede, on "The Prayers of David."

Aug. 23—Joint Engineering and Mineral Industries Colloquium, 3:15 p.m., Room 124 Sackett.

SENATE —

(Continued from page two)

Section I (o) 3 A of the By-Laws to delete the words "to be selected from among the voting membership on the Senate Committee on Student Affairs." This proposal will lie on the table for action at the next regular meeting of the Senate.

The President commented on a communication received from the College of Health and Physical Education regarding extramural sports for women at this University and referred the matter to the Senate Committee on Athletics for study.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker commented on the appropriation.

D. H. McKinley announced Commencement for the Summer Term for Sunday, September 1, 1963 at 2 p.m. in Recreation Building.

The next regular meeting of the University Senate will be on Tuesday, October 1, 1963; the agenda will be distributed on September 17, 1963. The meeting adjourned at 4:16 p.m.

Robert G. Bernreuter, Secretary

Elasticity

A joint colloquium of the Colleges of Engineering and of Mineral Industries will be held Friday, Aug. 23 at 3:15 p.m. in Room 124 Sackett with Dr. Ekkehart Kroener, professor of theoretical physics at the Bengakademie Clausthal, West Germany, as the speaker.

His topic will be, "The Dia- and Para-Elasticity of Solids."

Through his work in the continuum theory of dislocations and plasticity, Dr. Korener has gained international recognition.

faculty BULLETIN

Vol. 51, No. 7 Aug. 16, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main. UN 5-7517

W. F. Ackerman, Editor

RECEIVED

AUG 15 1963

AUDIO-VISUAL AIDS LIBRARY

LOUISE K KELLY
401 PATTEE LIBRARY

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

PERSONNEL MATTERS



Dr. Jefferson D. Ashby, associate director of the Division of Counseling, is visiting professor at the Southern Illinois University Rehabilitation Center during the month of August while on leave. He is conducting seminars, working with doctoral candidates, aiding in the formulation and implementation of research on clinical and counseling problems, and visiting various training facilities as consultant.

Dr. S. Lewis Land, professor emeritus of industrial education, left this week to begin a two-year tour of duty in India as consultant to the Ministry of Education of the Government of India. He will be there as a member of the Ohio State University faculty, working with the U. S. Agency for International Development. During July and August, Dr. Land was in Egypt, assisting the United Arab Republic Mission of AID to plan a teacher education program for training of industrial instructors.

NOTICE

The Department of Public Information is now located in Room 312, Old Main. The telephone number remains UN 5-7517. Items for the Faculty Bulletin Calendar should reach the editor by 5 p.m. Monday but items of some length should be in his hands by Monday at noon. The issue of Aug. 30 will be the last until Sept. 20 issue, for which items should be submitted by Sept. 16.

Commencement, grades

Summer Term Commencement Exercises will be conducted in Recreation Building Sunday, Sept. 1, at 2 p.m.

Members of the President's party and members of the faculty will meet under the south balcony in Recreation Building at 1:45 p.m. The President's party will be in robes and members of the faculty in robes will join the procession.

Grades for all students, including graduate students, who are to receive degrees at Commencement must be reported to the Office of the Registrar, Room 4, Willard, not later than 9 a.m., Saturday, Aug. 31.

Grades for all other students, including graduate students, must be reported to the same office within 48 hours after the final examination or the last class meeting, whichever is later. Final deadline for all grades, including research grades, is 9:55 p.m., Monday, Sept. 2.

Members of the faculty are requested to deliver grade cards to Willard Building in person, rather than to use the campus mail. Night and after-hours depositories for grade cards are in two locations at Willard Building: southeast door, ground floor rear, and northeast, first floor front.

Design

Maxine Schein, art assistant in the department of publications, is designer of a book jacket which will be part of an exhibition of graphic art that will tour Russia this winter. The jacket was for the book, "The French New Novel," by Dr. Laurent LeSage, professor of Romance languages.

The U. S. Information Agency organized the exhibit to represent the best in American graphic art and includes posters, advertisements, and packaging as well as book jackets.

Portrait

Hiram D. Williams' portrait of artist Hobson Pittman is currently hanging in the President's suite in Old Main.

Mr. Pittman, who has been teaching painting in summer classes at Penn State since 1932, was honored in June with the Penn State Medal, "for outstanding contributions to higher education."

Williams, a Penn State graduate, is associate professor of art at the University of Florida. He is a former student of Pittman's, has received wide recognition and is represented in many museums.

Promotions

Faculty members receiving promotions in addition to those listed in last week's Faculty Bulletin include the following, all effective July 1, 1963:

To rank of assistant professor: William S. Adams, electrical engineering; Charlotte E. Ball, English (DuBois); Carl F. Barnes, Jr., history of art and architecture; Leo F. Boron, mathematics; Charles D. Bruch, engineering (Scranton); Paul J. Conway, engineering (Altoona); Angelo V. Costanzo, English (Wilkes-Barre); Kathryn B. DeBoer, speech.

Edward P. Farrand, forestry extension; Joseph E. Faulkner, sociology; Leon Frankston, art education; Richard L. Grube, architecture; John E. Haag, English; Carl W. Haesler, pomology extension; Bill Hanson, art; Audrey B. Harsanyi, home economics education; James M. Hughes, Jr., engineering (Altoona).

Herbert C. Jordan, poultry science extension; Francis E. Kaprocki, engineering research; Bruce E. Knox, solid state technology; Frank T. Kocher, Jr., mathematics; Jack B. McManis, English; Robert L. Masson, education; Charles E. Medlar, physical education; Ralph R. Moringo, civil engineering.

John Muench, Jr., forestry; Thomas A. Olbricht, speech; Joseph Paternost, Slavic languages; G. Arthur Price, engineering (Pottsville); Robert G. Price, philosophy; Lawrence V. Rubright, agricultural economics extension; Richard G. Saacke, dairy physiology.

Maurice M. Sevik, aeronautical engineering and engineering research; Edwin A. Smith, chemistry (DuBois); Frederick A. Snyder, general engineering (York); Richard A. Strand, electrical engineering; Alan Trachtenberg, English; Peter Vujacic, physics (Ogontz); Helen H. Webb, physics.

Bond issue

To obtain a more favorable interest rate, the University has issued a new series of serial and term bonds to refinance \$21,810,000 worth of Series A bonds still outstanding which were first issued in 1957 to construct residence and dining halls.

The original bonds were sold at an average annual interest rate of 3.93 per cent; the new bonds will have a rate of 3.426 per cent.

Art exhibit

Oil and water color paintings by students of George Morrison and Hugo Weber are on exhibit at the HUB Gallery and will remain until Aug. 26.

Morrison and Weber are distinguished artists who have been teaching Summer Term classes in painting.

Drawings of Morrison's pupils will be in the HUB gallery and in Temporary Classroom Building. There are also drawings by students of George Pappas and Eleanor Zygler.

SENATE MINUTES



ANNUAL REPORTS

CALENDAR AND CLASS SCHEDULE

At the June 5, 1962, meeting of the Senate the recommendations of the Committee for a separate final examination period were approved as were the recommendations for appropriate changes in the rules for undergraduate students.

No business has been assigned to the Committee during the past year, either by the Senate or by the administration.

The Committee met once of its own volition to review the calendar situation and to consider the conflict that arose in the spring term of 1963 between the filing date for grades for graduating seniors and the scheduling of examinations for courses taken by such seniors. The Committee took no action on either item but authorized the chairman to discuss the grade-examination problem with the President in the hope that a satisfactory arrangement can be worked out for future calendars without alteration or amendment of the present policy. The discussion has taken place, and it appears that no Committee action is needed at present.

Read, H. J., Chairman

ON ATHLETICS

During the 1962-63 academic year, the Senate Committee on Athletics met as a unit on five different occasions and on two additional occasions with the Athletic Advisory Board in order to establish policy and evaluate matters under its jurisdiction. The Committee reported to the Director of Athletics the ineligible list of athletes in each freshman and varsity sport as per Senate and National Collegiate Athletic Association Rules. The Committee approved athletic schedules and gave its permission for the football team to participate in the Gator Bowl provided the team, coaches, and administration gave their consent.

The Committee through the Chairman continued to issue a memorandum to each student certifying that he had been off campus on a University approved trip—as a matter of information only.

The Committee recommended to the Senate Committee that the X-6 Rule be changed to read as follows:

"A student matriculated in the University, who wishes to participate in any athletic event not conducted under intercollegiate or collegiate auspices of recognized character shall apply in writing, furnish all required information, and secure permission ten days in advance from the Senate Committee on Athletics in order to maintain his amateur standing and eligibility to participate in intercollegiate athletics. A student failing to obtain such permission in advance may be declared ineligible for membership on University Athletic teams."

The primary purpose of this recommen-

dation was to provide by statute adequate time for the Committee to evaluate a request.

The report of the sub-committee on Away Athletic Contests was approved (with an amendment) thus reducing the number of hours permitted per season off campus.

Thomas A. Seward (Curriculum of Arts and Letters); academic cumulative average —3.06, a Varsity Gymnast for three years, was awarded the Eastern College Athletic Conference merit medal. The award recognizes the student who best combines scholarship with athletics during his college career.

The following applications for membership in the NCAA were approved: New York State University in Albany, New York; New York University in New Faltz, New York; West Liberty State College in West Liberty, West Virginia; and Glassboro State College in Glassboro, New Jersey.

The following letter was received from Dean Ernest B. McCoy on May 23, 1963:

"I, as the Administrative Officer of the Pennsylvania State University Intercollegiate Athletic program, state that the Department of Intercollegiate Athletics, has performed this past year, 1962-63, completely within the precepts of the NCAA, the ECAC, the Senate X-Rules, and the policies of the Senate Committee on Athletics."

Again the Committee wishes to thank Mrs. Alice Royer and the Senate Secretariat for their assistance.

*R. H. Wherry
Chairman*

ON MILITARY INSTRUCTION

During the academic year 1962-1963 the Senate Committee on Military Instruction:

1. *Assisted the Office of the Dean of Admissions and the Dean of Men in the administration of the S rules;*
2. *Recommended after long study that the Senate reject a proposal by The College of the Liberal Arts to place ROTC on an elective basis;*
3. *Began a study of an ROTC orientation program in the event that the University adopts an elective ROTC program.*

The Committee's recommendation concerning elective ROTC was defeated; the Senate adopted the Liberal Arts resolution (amended to include the whole University) in favor of elective ROTC. (See Faculty Bulletin, October 12, 1962).

The Committee's study of an ROTC orientation program has not been completed.

J. G. Rayback, Chairman

ON RULES

During the 1962-63 academic year the Senate Committee on rules revised the Senate Policies for Undergraduate Students and the Senate Bylaws in accordance with the Senate actions of the previous year. There have been very few actions of the Senate this year which have revised either the rules or bylaws or require their revision, and none of these were of major significance.

B. A. Whisler, Chairman

Zip Code numbers

Listed below are the U. S. Post Office "Zip Code Numbers" for many of the University offices throughout the State, as listed on page 3 of the Student-Faculty Directory. Full addresses should be used as noted in the directory.

Commonwealth Campuses

Allentown	18105	Ogontz (Abington)	19001
Altoona	16601	Pottsville	17901
Behrend (Erie)	16510	Scranton	18509
DuBois	15801	Wilkes-Barre	18705
Hazleton	18201	Wyomissing	19610
McKeesport	15132	York	17403
Mont Alto	17237		
New Kensington	15068		

County Extension Offices

Adams	17325	Lackawanna	18503
Allegheny	15219	Lancaster	17604
Armstrong	16201	Lawrence	16103
Beaver	15909	Lebanon	17642
Bedford	15522	Lehigh	18101
Berks	19601	Luzerne	18702
Blair	16648	Lycoming	17704
Bradford	18848	McKean	16749
Bucks	18901	Mercer	16137
Butler	16001	Mifflin	17044
Cambria	15931	Monroe	18360
Cameron	15834	Montgomery	19401
Carbon	18229	Montour	17821
Centre	16823	Northampton	18042
Chester	19380	Northumb'rd	17801
Clarion	16214	Perry	17068
Clearfield	16830	Philadelphia	19102
Clinton	17745	Pike	18337
Columbia	17815	Potter	16915
Crawford	16335	Schuylkill	17901
Cumberland	17013	Snyder	17842
Dauphin	17101	Somerset	15501
Delaware	19063	Sullivan	18614
Elk	15853	Susquehanna	18801
Erie	16502	Tioga	16901
Fayette	15401	Union	17837
Forest	16353	Venango	16323
Franklin	17201	Warren	16365
Fulton	17233	Washington	15301
Greene	15370	Wayne	18431
Huntingdon	16652	Westmoreland	15602
Indiana	15701	Wyoming	18657
Jefferson	15825	York	17403
Juniata	17059		

Other Offices

Continuing Education

District Offices:

Harrisburg	17108	New Castle	16101
Abington	19001	Williamsport	17701
Swarthmore	19081		

Agricultural Research

Stations at:

Centre Hall	16828	Landisville	17338
Pa. Furnace	16865	North East	16428
Rector	15677	Huntingdon	16652
Arendtsville	17303		

Note: The address of the New Kensington Center is now 300 Main St.; of the Adams Co. Extension office, 111 Baltimore St., Gettysburg; and of the Chester Co. Extension Office, 235 W. Market St., West Chester.

Tenure policy changes noted

The Board of Trustees approved effective July 1, 1963, revisions in the previous academic tenure policy, discontinuing the ranks of instructor and research assistant as tenure ranks. Personnel of these ranks who had tenure are not to be affected by the revision nor are those serving on continuing appointments prior to July 1.

The tenure regulations provide that faculty members promoted to the rank of assistant professor or research associate or above will be given provisional status credit for the time spent as an instructor or research assistant at the University provided the credit does not exceed five years.

For a member of the faculty appointed on a year-to-year basis who is later appointed on a continuing basis, his dean may consider, as applicable, time served on temporary appointments.

The policy provides that at least 90 days written notice of termination shall be given a faculty member prior to the completion of the first year of provisional service if the faculty member is not to be continued in service into the second year. The same provision applies for faculty members not continued into the third year.

A faculty member who has served two or more provisional years with the University will be given at least 12 months' written notice of termination if not to be continued in service. Exception is made if the faculty member is guilty of moral turpitude or in cases of bona fide financial exigency. (The entire policy is given below.)

ACADEMIC TENURE

(a) Each appointment to the full-time, continuing rank of professor, associate professor, senior research associate, research associate, and assistant professor, shall be provisional until notification of change of status is sent to the appointee by this University on the terms and conditions set forth below. A full-time faculty member required to serve a provisional appointment period shall, at the expiration of such provisional period, have permanent tenure, and his service shall be terminated only for adequate cause, except in the case of retirement for age, or under extraordinary circumstances because of financial exigencies. In the interpretation of this principle of tenure, the following academic practices are operative:

(1) The precise terms and conditions of every appointment shall be stated in writing and be in the possession of both the University and the faculty member before the appointment is consummated.

(2) In no case shall the total provisional appointment period at this University exceed

seven years.* This provisional appointment period shall include previous full-time academic service at this or in other accredited institutions of higher learning; provided, however, that this University may require new appointees to serve in provisional status for a period not to exceed four years even though thereby the person's total provisional appointment period in the academic profession is extended beyond the normal maximum of seven years. In exceptional cases, permanent tenure may be granted the faculty member upon appointment to full-time status on the staff of this University.

Only those who are at the rank of assistant professor or research associate or above may be granted tenure. A faculty member who is promoted to the rank of Assistant Professor or Research Associate (or above) shall be given provisional status credit for time spent as an Instructor or Research Assistant at this University; however, the provisional service credit shall not exceed five years. In the event a faculty member appointed on a year-to-year basis is later appointed on a continuing basis, a dean may consider as applicable, time served on temporary appointments.

Except as noted in Section (5), at least 90 days written notice of termination shall be given a faculty member prior to the completion of the first year of provisional service if the faculty member is not to be continued in service into the second year of service; the same provision applies to a second year of provisional service if the faculty member is not to be continued into the third year of service; a faculty member who has served two or more provisional years with the University shall be given at least twelve months' written notice of termination if he is not to be continued in service; provided, however, a faculty member guilty of moral turpitude automatically forfeits the rights and privileges enumerated herein, regardless of years of service; and provided further that in cases of bona fide financial exigency, which could not have been foreseen, the service of a faculty member with provisional status may be terminated with less than one year's advance notice, regardless of the number of years that faculty member has served on a provisional appointment status.

(3) During the provisional appointment period a faculty member shall have the academic freedom that all other members of the faculty have.

(4) In all cases wherein permanent tenure is attained, the appointee shall be so notified at the time, and in writing, by the University.

(5) In all cases wherein the facts are in dispute, termination for cause of a permanent appointment, or the release of a faculty member during the provisional appointment period with less advance notice than that specified in Section (2), shall be considered at a hearing by a standing joint committee of the faculty and administration

which will act in an advisory capacity to the President of the University. This committee shall consist of five members: two members representing the administration, two faculty members selected by the elected members of the University Senate, and a fifth member, the chairman, chosen by the other four. The faculty member concerned shall, before the hearing, be informed in writing of the charges against him, and shall have the opportunity to be heard by the committee in his own defense. He shall be permitted to have with him an advisor of his own choosing, who may act as counsel. There shall be a full stenographic record of the hearing available to the parties concerned. In the hearing of charges of incompetence, the testimony shall include that of faculty members and other scholars from this or other institutions. The committee's report and recommendations shall be submitted to the President of the University, who will transmit them, along with his own recommendation, to the Board of Trustees.

A faculty member with permanent tenure dismissed for reasons not involving moral turpitude shall receive his salary for one year from the date of final action on his dismissal by the Board of Trustees.

(6) If a permanent appointment is terminated because of financial exigency, the released faculty member's place shall not be filled by a new appointee within a period of two years, unless the released faculty member has been offered, and has declined, the reappointment. If a permanent appointment is terminated because a special subject or a research project has been dropped or a curriculum or course reorganized, the faculty member concerned shall be continued on the staff in some other capacity if possible. If any faculty member is dissatisfied with his dismissal in circumstances mentioned in this paragraph, he shall be entitled to follow the procedure described in the preceding paragraph.

(7) Termination of any appointment because of financial exigencies shall be demonstrably bona fide.

(8) The foregoing principles and regulations governing tenure apply only to full-time continuing faculty members of the University holding the rank of professor, associate professor, senior research associate, research associate, and assistant professor. They do not apply to special faculty appointments, which include the ranks of visiting professor, visiting lecturer, and all part-time or non-continuing appointments at any rank. Special faculty appointments are governed by the terms of the memorandum of personal service signed by each such non-regular employee.

(9) Administrative personnel who also hold academic rank qualify for the foregoing tenure rights and privileges by virtue of their academic status, but not as administrators.

* Since the purpose of the provisional period is to provide an opportunity for observing the faculty member, time spent on leave of absence regardless of reason, therefore, will not be considered as part of the provisional period.

GRANTS



Dean Asquith, Arendtsville, \$500, California Chemical Co., for research at Arendtsville.

F. H. Lewis, Arendtsville, \$500, Chemagro Corp., for research at Arendtsville.

R. D. Shipman, forestry, \$12,000, Penna. Dept. of Forests and Waters, for forest fertilization studies.

L. S. Hamel, Student Affairs Research, \$17,105, Penna. Dept. of Public Instruction, for administration of State Scholarship Examination and construction of the 1964-65 examination.

L. S. Hamel, Student Affairs Research, \$18,755, Penna. Dept. of Public Instruction, for scoring of high school examination papers.

C. B. Smith, horticulture, \$300, Campbell Soup Co., for studies of interrelations among varieties, fertilizer treatments, spacing and location of tomatoes, peas, beans, and sweet corn.

H. B. Marshall, agronomy, \$850, The Birkett Mills, for buckwheat research.

J. W. Duich, agronomy, \$2,000, U. S. Golf Association investigations of turfgrass management.

Dean Asquith, Arendtsville, \$800, Chemagro Corp., for research at Arendtsville.

J. W. Mastalerz, horticulture, \$2,280, Dillon Research Fund, for research on floriculture crops.

C. D. Schmulbach, chemistry, \$13,000, National Science Foundation, for studies of the chemistry of phosphorus-nitrogen compounds.

L. D. Wissinger, Rector, \$1,176.56, Mrs. Cordelia Scaife May, to support work of Southwestern Field Research Laboratory at Rector.

R. H. Ramsey, Industrial Reference, \$1,250, U. S. Dept. of Commerce, for studies of technical inquiries in the field of industrial problems.

Package Lost

A package addressed to the Department of Meteorology, c/o James Breon, delivered some place on the campus about the first of June from Sierra Research Co., Buffalo, N. Y., cannot be located. The package, sent by air freight, weighs about 50 pounds and is about 18 in. by 12 in., and contains a gear train and gear box which cannot be replaced. The items are essential for the operation of certain research equipment. Information concerning the package should be given to the department office, UN 5-6451.

Chapel

Dr. William G. Mather, professor of sociology, will be the Chapel speaker for the final service of the Summer Term Sunday at 9 a.m. in Helen Eakin Eisenhower Chapel. His sermon topic will be, "Religion as Adventure."

Meteorology

During the past 12 years, the department of meteorology has trained nearly 600 Air Force officers in a program similar to that given for undergraduates but concentrated and accelerated to be completed in a year. The Air Force has renewed its support of the program for another year with a grant of \$35,250.

Colloquium

A joint Mineral Industries-Engineering Colloquium will be held today (Friday) at 3:15 p.m. in Room 124 Sackett with Dr. Ekkehart Koerner, professor of theoretical physics at the Bengakademie, Clausthal, West Germany, speaking on "The Dia- and Para-Elasticity of Solids."

Outdoor Movies

Although set up specifically for associate degree students now in attendance at University Park, a program of Wednesday night outdoor movies is open to the faculty and staff as well. The first movie will be held Wednesday, Aug. 28, at 9 p.m. on the HUB lawn (in case of rain it will be shown the next evening).

CALENDAR



Aug. 23—Joint Mineral Industries-Engineering Colloquium, 3:15 p.m., Room 124 Sackett. Dr. Ekkehart Koerner, West Germany, on "The Dia- and Para-Elasticity of Solids."

Aug. 23—Pavilion Theatre production of "Come Blow Your Horn," curtain time, 8:40 p.m. Concludes Aug. 24.

Aug. 23—Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Aug. 25—Chapel Service, 9 a.m., The Chapel.

Dr. William G. Mather, professor of sociology, on "Religion as Adventure."

Aug. 28—Outdoor movie, 9 p.m., HUB lawn.

Appointed

Dr. Nelson McGeary, assistant to the President and professor of political science, has been named by Gov. Scranton to the Committee for the Appalachian Center, to be established as a project of the Conference of Appalachian Governors.

The purpose of the Center is aid in the development of the region through development of ideas for attaining new information, inform the public of the development of the region, play an active role in helping individuals and organizations to get assistance in their development activities, and harmonize research, training, and extension work.

Each of the governors of the co-operating states has been asked to name two members of the Committee in addition to the regular staff members serving the conference. John K. Tabor, Secretary of Commerce, is Pennsylvania's staff member.

faculty BULLETIN

Vol. 51, No. 3 Aug. 23, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

No medical stranger

PENN STATE is no stranger to the medical field, even without a medical school.

In the area of instruction, a pre-medical baccalaureate program has been offered since 1909, a medical technology curriculum since 1941, a nurses' training program since 1952, a series of medical seminars for doctors since 1962, and this year was initiated the first five-year program leading to a medical degree ever offered in this country.

Not so obvious, perhaps, are the many research programs which contribute significantly to medicine and health.

The baccalaureate program in pre-medical training has enjoyed outstanding success for many years, as measured not only by the increasing enrollment but by the continued success graduates have in enrolling in the best medical schools for completion of the medical degree. Administered in the College of Chemistry and Physics for many years, the program was considered outstanding for the science training offered.

The medical technology program given in the College of Agriculture by the department of bacteriology (now microbiology) has graduated over 150 young women who train to become hospital technicians. Bacteriology graduates and those obtaining advanced degrees in the field are in many cases associated with the medical field.

The nurses' training program administered by Continuing Education
Continued on page four

Penn State to operate

Hershey medical center

A MEDICAL SCHOOL, hospital, and research center to be operated as an integral part of the University's program will be constructed in Derry Township, Dauphin County, near Harrisburg, as the result of the establishment of a fund of \$50,000,000 from charitable trusts set up by the late Milton S. Hershey, founder of the Hershey Chocolate Corp.

The facility will be known as The Milton S. Hershey Medical Center and it is hoped that the first class will be admitted to the medical college by the fall of 1965 or 1966.

Mr. Hershey instituted, in 1909, a trust fund to found a permanent school for residence and education of poor orphan boys, and during his lifetime made substantial gifts to the trust, which now includes a major part of the outstanding stock of the Hershey Chocolate Corp. The Milton Hershey School (formerly the Hershey Industrial School) was established in 1909 and has served the needs Mr. Hershey envisioned. In 1935, Mr. Hershey organized the Foundation, specifically providing funds for educational institutions in Derry Township. A decree last Friday by the Dauphin County Orphan's Court now directs that \$50,000,000 be transferred to the Foundation from the Trust for the express purpose of establishing the medical school in Derry Township as an educational institution within the declared intention of Mr. Hershey.

Samuel F. Hinkle, president and chairman of the Board of Hershey Chocolate Co. and member of the Board of the Foundation, and President Walker said that arrangements



Samuel F. Hinkle and President Walker plan the medical center.

for the construction of the school and its operation will begin immediately. It is estimated that approximately \$20-\$25 million will be required to build and equip the school and teaching hospital. Income from the balance of the fund, it is believed, will be sufficient to endow and subsidize the medical school and provide scholarship grants and loans to worthy students.

The need for more medical schools in the nation was spelled out by a Consultant Group on Medical Education
(Continued on page three)

Failure before success

MILTON SNAVELY HERSHEY was born on his father's farm in Dauphin County, where the Hershey factory is now located, on Sept. 13, 1857, of Mennonite parents. The Hershey family had come from Switzerland in 1719.

At 7, he moved with his parents to a smaller farm at Nine Points, Lancaster Co. At 14, he became a printer's devil for the "Waffellelose Waechter" in Lancaster but returned home after a year of such work.

When Royer's confectionary store in Lancaster needed a boy at its West King St. store, young Hershey took the job, staying four years as an apprentice. Then, at 19, with \$150 of savings and a loan from his aunt, he went into business in Philadelphia, making penny candies and ultimately cough drops as well. He went out of business three years later, however, and went to Chicago and then Denver only to return home again a year later.

At 26, Hershey went to New York, again with help from his aunt, and set up a small factory on Sixth Ave., between 42nd and 43rd Sts. Here he specialized in caramels and the business grew rapidly but he made a mistake in leasing property and was forced to go bankrupt. His creditors were paid off 40 cents on the dollar but he vowed to repay them all, and ultimately he did.

Once again returning to Lancaster, Hershey for the third time borrowed from his aunt, setting up a caramel factory on Church St., Lancaster. This time
(Continued on page three)

900 degrees at Commencement

Approximately 900 degrees will be granted at Commencement Exercises Sunday, Sept. 1 at 2 p.m. in Recreation Building.

Bachelor's degrees will be granted to 507, master's degrees to 328, and doctor's degrees to 68, distributed as follows:

Bachelor's—Agriculture 32; Arts and Architecture 6; Business Administration 78; Education 126; Engineering 89; Health and Physical Education 9; Home Economics 13; Liberal Arts 97; Mineral Industries 16; Science 42.

Masters'—Arts 32; Business Administration 5; Education 22; Engineer-

ing 1; Public Administration 1; Science 69.

Doctor's—Education 21; Philosophy 47.

Thirty-two graduating seniors will receive commissions in the armed forces including 21 as second lieutenants in the Air Force Reserve, one as ensign in the Navy, one as ensign in the Naval Reserve, one as second lieutenant in the Marine Corps, and two as second lieutenants in the Marine Corps Reserve.

Members of the faculty who plan to be in academic dress and process in the ceremony will meet under the south balcony of Recreation Building at 1:45 p.m.

ITEMS OF INTEREST



Lectures and Talks

CLEWITT, R. L., marketing, discussion leader, at the 13th annual Marketing Theory Seminar at the University of Colorado.

MACKENZIE, O. R., Business Administration, "Accreditation of Accounting Curricula" at the annual meeting of the American Accounting Association in Stanford, Calif.

MARET, F. B., journalism, two weeks of lecturing on "Man and Journalism" at a seminar for advanced training of journalists at Quito, Ecuador.

MARSH, C. R., electrical engineering, on visual problems in driving on highways and turnpikes in fog at the Engineers Society of Pennsylvania meeting in Harrisburg.

WEINTRAUB, STANLEY, English, guest speaker on the modern English novelist, Joyce Cary, at the U. S. Air Force Academy, Aug. 20.

Articles and Papers

BERNIER, Student Affairs Research, "Non-discriminatory and Indiscriminatory Responses in a New Pitch Discrimination Test."

CARPENTER, C. R., Division of Instructional Services, "Analysis of a Bounded Non-Human Primate Population," at the 15th Congress of Zoology, in Washington, D.C. — "New Technologies in Education—The 'Mass' Media of Communication," before the 17th International Congress of Psychology.

ENGLE, A. J., chemical engineering, "The Effect of Vibration on a Double Pipe Heat Exchanger," at the Sixth National Heat Transfer Conference in Boston, Mass.

FERRARO, A. J., electrical engineering, "The Reflection of Low Frequency Radio Waves from the Ionosphere," at the Symposium on Ionospheric Propagation of VLF Radio Waves at Boulder, Colo.

HAESLER, C. W., horticulture extension, "Effect of Various Controlled Day Temperatures during Blossoming of Fruit and Vegetative Development in Concord Grapes," at the annual meeting of the American Society of Horticultural Science at Amherst, Mass.

INMAN, M. C., engineering mechanics, "Study of Twin Boundary Grain Investigations in Metals by Transmission Electron Microscopy," at the 21st annual meeting of the Electron Microscope Society of America in Denver, Colo.

JOHNSTONE, H. W., JR., philosophy, "Argument and Human Nature," before the Speech Association of America annual meeting in Denver.

—"Philosophical Argumentation" at the 13th International Congress of Philosophy, in Mexico City, Sept. 7-14.

KALIJARVI, T. V., Center for Continuing Liberal Education, "Obstacles to European Unity" in the July issue of the Annals of the American Academy of Political and Social Science.

DE LISSOVY, VLADIMIR, child development and family relationships, "Occupational Hazards of Counseling" at the meeting of the National Council on Family Relations and served as member of symposium on "Relation of Research to Mass Circulation Magazine."

NEUBERGER, HANS, meteorology, three poems, "Stille," "Dunkle Stunde" and "Letzte Stue" in the American-German Review.

MASTALERZ, J. W., horticulture, "Yield and Quality of Greenhouse Roses with CO₂ Enrichment of the Greenhouse Atmosphere," before the meeting of the American Institute of Biological Sciences at Amherst.

SMITH, W. S., theatre arts, "Theosophist Helena Blavatsky," in the Aug. 11 issue of the Christian Century.

SOUTHWORTH, H. M., agricultural economics, "Historical Evolution of Important Problems in Marketing" at the annual meeting of the American Farm Economic Association at the University of Minnesota.

Artists series

The 1963-64 Artists and Lecture Series has been announced. Lectures will be given by R. Buckminster Fuller, engineer, architect, and author; Howard K. Smith, news analyst; and Sir Julian Huxley, scientist and author.

Complete schedule for the year is as follows:

Oct. 4—Kimio Eto, kotoist, and Suzushi Hanayagi, classical dance.

Oct. 18 and 19—"Brecht on Brecht," with Lotte Lenya, Schwab.

Oct. 27—Lecture by R. Buckminster Fuller, Schwab.

Nov. 6—Moscow Chamber Orchestra, Rudolf Barshai, conductor, Schwab.

Nov. 23—Mstislav Rostropovitch, cellist, Schwab.

Nov 27—Pittsburgh Symphony Orchestra, William Steinberg conducting, with John Browning, pianist, Recreation Building.

Jan. 24—The Festival Associates, Thomas Dunn, director, in operas by de Falla and Poulenc. Schwab.

Jan. 30—Gerard Souzay, baritone, Schwab.

Feb. 7 and 8—Luigi Pirandello, "Six Characters in Search of an Author," off-Broadway show. Schwab.

Feb. 15—Abbey Simon, pianist, Schwab.

Feb. 23—The San Francisco Ballet, Recreation Building.

Mar. 1—Houston Symphony Orchestra, John Barbirolli, conductor, Recreation Building.

Apr. 10—Lecture by Howard K. Smith, Schwab.

Apr. 17—Joseph Fuchs, violinist, and Lillian Fuchs, violist. Schwab.

Apr. 24—Lecture by Sir Julian Huxley, Schwab.

May 13—La Salle String Quartet, Schwab.

COLLOQUIUM

Dr. John M. Thomas, lecturer in physical and inorganic chemistry at the University of North Wales, speaks on "Etch Pit Formation on Graphite Single Crystals" before a Mineral Industries Colloquium Thursday, Sept. 5 in the Mineral Industries Auditorium.

OUTDOOR MOVIE

Two more outdoor movies will be held on the HUB lawn (or in the HUB ballroom in case of rain). They will be shown Wednesday, Sept. 4 and Sept. 11 at 9 p.m.

Fall Term

Student Encampment Sept. 18-20, Orientation Week, Sept. 22-28, and Registration Sept. 25-27 will be the opening activities of the Fall Term.

Harrisburg campus

PRESIDENT WALKER indicated last week that establishment of the Milton S. Hershey Medical Center may pave the way for a Commonwealth Campus in the Harrisburg Area to provide graduate training and other college work.

It is logical, the President said, that since the facility will be available, it should be considered as a possible location for other Penn State facilities to serve the Harrisburg area. For many years the University has conducted a vigorous continuing education program in the area and has been cooperating with other colleges in the area in a program of higher education. It is expected that this cooperation will continue.

Citing the fact that postgraduate programs in engineering appear to be urgently needed to help practicing engineers keep abreast of the rapidly accelerating knowledge and techniques in the field, the President said that such programs might be made available to the Harrisburg area through refresher courses and seminars.

Undergraduate programs for work in technological fields and possibly in public health and other areas leading to associate degrees might be included in a facility at the new site.

Elected

Dr. Robert T. Oliver, head of the speech department, and Dr. Arthur J. Maw, head of the poultry science department, were elected to important posts in professional societies recently.

Dr. Oliver was elected president of the Speech Association of America at the Association's annual convention at Denver, Colo., on Aug. 21. He has twice been president of the Pennsylvania Speech Association, which began at Penn State in 1939. Dr. Oliver joined the faculty in 1949 as professor and head of the department of speech.

Dr. Maw was elected second vice-president of the Poultry Science Association at national meetings of the Association at Stillwater, Oklahoma, Aug. 20. He came to Penn State in 1944 and was named head of the poultry department in 1957.

Next Issue

The next issue of the Faculty Bulletin will be published Sept. 20. Items for that issue should be forwarded to the editor by Monday, Sept. 16.

HERSHEY —

(Continued from page one)

tion appointed by the U. S. Surgeon General some years ago. The 1959 report of the Group, labelled "Physicians for a Growing America," said that in order to maintain even the current ratio of physicians to population (141 per 100,000) the nation will require a total of 330,000 physicians in 1975, in turn requiring 11,000 graduates a year by that time or 3,600 more than at present. The Group also recommended that medical schools be part of a university and be supplemented with a teaching hospital.

President Walker, commenting on the new school's relation to Penn State, explained, "I have said on numerous occasions that Pennsylvania with six medical schools has adequate facilities for serving the State in the training of men and women to enter the field of medicine.

"This is indicated by the potential student enrollment in the existing schools.

"I have stated also that the Commonwealth is doing more than its share in support of medical education. It has provided many of the buildings and other facilities for the existing medical schools as well as an annual operating subsidy that amounts to almost \$3,000 for each medical student in the Commonwealth.

"We have felt that the Commonwealth has other pressing educational needs and for this reason have never sought State funds for a medical school, although we have from time to time been asked to establish such

President Walker, commenting about Penn State's hopes for the future in medicine:

"I would like to see developed a program that would stress the application of engineering and science to medicine. Penn State has outstanding programs in engineering and in science and it would make good sense to utilize the facilities available in these fields in developing programs in the field of medicine. I believe that the great advancements made in engineering and science offer great opportunity for new achievements in the field of medicine."

a school. In 1961 and again early this year, bills asking that Penn State establish a medical school were introduced in the Legislature.

"While Pennsylvania, in our opinion, does not need the additional medical school, studies do indicate that the Nation does need by 1970 twenty new medical schools simply to maintain U. S. medical support at the present level. Added to this national need is an implied responsibility in our programs abroad to train substantial numbers of medical students both from this country and from other countries for service abroad.

"We envision, therefore, that this medical school, established and supported by funds from the Milton S. Hershey Foundation and located in Derry Towp., near Harrisburg, will serve this broader need; that it would, indeed, attract students from all parts of the United States and from all parts of the world."

FAILURE — (Continued from page one)

his business was completely successful and soon he opened a branch factory in Bloomington, Ill.

In 1901, when other candy manufacturers wanted him to join them, Hershey declined and sold out his caramel business for one million dollars.

Earlier, he had purchased chocolate-making machinery from abroad to use in the caramel business, never emphasizing chocolate products. When he sold the caramel business he began making chocolate candies in a small way, intending to take life easy. But while on a world cruise he decided to return home and build up the business again.

He chose a site for his factory in Lebanon Valley, near Derry Church and work began on the plant in 1903 on a 1200-acre section of land. His fame as a chocolate-maker reached round the world, and, although he did not intend to start the chocolate business to make money but merely to use the money he already had and to do something useful, the Company was soon a major manufacturing concern.

He started the Hershey Industrial School with an endowment of 500,000 shares of Chocolate Co. stock and it was many years before the business world realized the worth of the school. In 1929, the trust fund had reached \$40,000,000.

Mr. Hershey died in 1915, at the age of 88.

The story of the town of Hershey and the many other activities of the area is one of the most unusual in American business history.

NO STRANGER —

(Continued from page one)

Services has given more than 5,000 young women their science background as they train to be nurses. In cooperation with hospitals in the State, Penn State faculty members or those of other institutions approved by the University, have given the basic science courses to the nursing trainees which formerly was given by the hospitals that customarily provide the medical training. Penn State's is the only State-wide program, serving more than 30 hospitals throughout Pennsylvania.

Of more recent origin is the program of medical seminars given in cooperation with Jefferson Medical College since 1960 to update practicing physicians. Many of the doctors come 40 miles to attend seminars held, usually at hospitals, in their areas, with specialists from Jefferson or from the area in the specific topic to be considered. In some areas, for example at York, as many as 30 seminars are held in a year and the number of communities asking for this type of medical training keeps growing.

The cooperative program with Jefferson to provide a medical training in five years got underway during the Summer Term with 28 men and one woman enrolled as Penn State freshmen. The program, still considered experimental, will cut three calendar years from the normal training period for a medical degree.

Research

One indication of the research effort related to medicine is the fact that the U. S. Public Health Service

provides something over \$400,000 yearly for about 40 research projects with varying titles such as "Human Cholesterol Metabolism using Stable Isotopes" and "Properties of Some Oxides of Nitrogen."

These projects, which are carried on in some 30 different departments in virtually every area of the University, contribute to the basic knowledge that other researchers will build on to solve the so-called "practical" problems of medicine. For example, Dr. I. C. Hisatsune, associate professor of chemistry, who is conducting the nitrogen project, is seeking to gain information about the molecular structure of certain compounds, working at very low temperatures to gain his information, as part of investigations related to smog, certainly a health problem today.

Nor is the Public Health Service the only supporter of research in the broad medical field. Through Hatch Act funds of the U.S. Government, much of nutrition work in several fields is being carried on, by such researchers as Dr. Mary L. Dodds, professor of foods and nutrition, and by Dr. Nollie B. Guarrant, professor of biological chemistry, who are doing outstanding work in this area.

The field of cancer, which has received much national attention, is not without researchers at Penn State. For example, Dr. C. I. Noll, acting dean of the College of Science, has a continuing project on unusual amino acids which may someday be of value in the treatment of cancer.

An example of the cooperative method of conducting research in the medical field is the project in the

charge of Drs. O. F. Tuttle and Rustum Roy, in geochemistry, and Drs. L. E. Mancall and William E. Delaney of Jefferson Medical College. Titled "Isotope and Element Fractionation in Disease," the project is aided by a nearly \$40,000 grant from the National Institutes of Health and is designed to study whether the techniques successfully used by the geochemists in finding small or trace amounts of metals in minerals can be used to find certain elements in human tissues.

The list is seemingly endless; there may well be additional projects in the future with the Milton Hershey Medical Center to aid the search.

PERSONNEL MATTERS



Robert M. Barnoff, associate professor of civil engineering, will enroll for advanced study in civil engineering at the Carnegie Institute of Technology while on leave from Sept. 1 to Aug. 31, 1964.

Dr. F. G. Brickwedde, Evan Pugh research professor of physics, is currently in Europe, having been awarded a grant by the National Science Foundation for travel for one month as official delegate of the National Academy of Sciences-National Research Council to the International Congress on Refrigeration, in Munich, Germany. He is vice president of the Commission for Low Temperature Physics and Cryogenic Engineering in the International Institute of Refrigeration.

faculty BULLETIN

Vol. 51, No. 9 Aug. 30, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty

BULLETIN

Weekly Publication
the Pennsylvania
State University

Books listed

The following books are among the 1,780 titles chosen for the White House Library.

"Outlawing the Spoils: A History of the Civil Service Reform Movement, 1865-1883," by Dr. Ari Hoogenboom, associate professor of American history.

"President James Buchanan," by Dr. Philip S. Klein, professor of American history, published by the University Press.

"Ernest Hemingway," by Dr. Philip Young, professor of American literature.

"History of the U. S. Atomic Energy Commission," by Richard G. Hewlett and Oscar E. Anderson, Jr., historians, published by the University Press.

Construction

Contracts have been awarded by the General State Authority for construction of the Life Sciences Building, the seven-story building to be built just west of Frear Lab to house departments of zoology and biophysics. Preliminary construction work has already started.

Total of the contracts let was \$2,192,863 and completion date is May 28, 1965, with the Orndorff Construction Co. of Camp Hill as general contractor.

Construction will be of gray roman brick on concrete columns forming a colonade on four sides, with intermediates of cast aluminum panels of medium gray with a reeded surface, in keeping with the design of Frear Lab.

Enrollment of 24,500 expected

An estimated 24,500 students will enroll next week at University Park and Commonwealth Campuses, an increase of 1,000 over last year and a record enrollment.

The increase will result from admission of 6,000 new students and retention of a very high percentage of previously-enrolled students. The number of students dropped at the end of the Spring Term constituted only 2.04 per cent of the enrollment, less than half of the percentage two years ago.

At University Park enrollment is expected to reach 18,200, some 600 over that of a year ago, and at Commonwealth Campuses it is expected

Sunday Driving

Members of the faculty are advised to remain off the campus Sunday unless on urgent business since some 6,000 new students will arrive to begin Orientation Week activities and the usual organized confusion will result in traffic problems. All areas of the campus will be affected.

that 4,000 will enroll, compared to only 3,600 last year. Other degree candidates, numbering 2,300, will enroll in continuing education programs throughout the State.

Freshman enrollment will total 5,400 (3,200 at University Park, 2,200 at Commonwealth Campuses) compared to 4,950 last year. About 600 students will transfer from other colleges and universities with advanced standing.

In spite of the fact that the freshman class will be the largest in the State and one of the largest in the East, the University had to deny admission to 1,400 qualified applicants and an additional 2,500 who filed applications were denied admission because they did not meet the University's standards.

President Walker will welcome the new students in a convocation in Recreation Building Monday at 9 a.m.

Sweden paper

Dr. G. W. Brindley, head of the ceramics technology department, presented a paper at the International Clay Conference in Stockholm, Sweden, Aug. 12-16, and acted as chairman of the section on mineral structures and compositions. He was also a member of a committee to make recommendations on clay mineral nomenclature. His paper was titled "The Role of Crystal Structure in Solid State Reactions."

Earlier, he gave the opening address at the inaugural session of the "Groupe Belge des Argiles" held in Brussels, Belgium.

CALENDAR



Friday, Sept. 20

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. David P. Hoult, assistant professor of aeronautical engineering, on "Heat Conduction in a Two-Phase Mixture."

Mineral Industries Colloquium lecture by Dr. A. I. Milavsky, Tyaco Laboratories, Waltham, Mass., on "Traveling Solvent Method of Crystal Growth with Applications to Solid State Diode Laser Construction," 3:45 p.m., Mineral Industries Auditorium.

Sunday, Sept. 22

New students arrive; Orientation Week activities begin.

Monday, Sept. 23

Freshman convocation, 9 a.m., Recreation Building, President Walker speaking.

Wednesday, Sept. 25

Fall Term registration begins, continues to Friday noon.

Sunday, Sept. 29

Chapel Services, 10:55 a.m., Schwab Auditorium. The Rev. Robert W. Duke, associate professor of Homiletics, Lancaster Theological Seminary.

Monday, Sept. 30

Fall Term classes begin, 8 a.m.

At Japan meeting

Four members of the Ionosphere Research Laboratory staff will attend the 14th General Assembly of the International Scientific Radio Union in Tokyo, Japan, in September.

Dr. John P. Hagan, professor of radio astronomy, will head the U. S. delegation of over 100 people as chairman of the U. S. National Committee of URSI. His travel is sponsored by the U. S. Department of State.

Dr. Arthur H. Waynick, head of the department of electrical engineering and director of the Ionosphere Research Laboratory, will serve as one of the voting delegates as treasurer of the U. S. National Committee of URSI.

Dr. John S. Nisbet, associate professor of electrical engineering, and Dr. Erwin R. Schmerling, for the past year on leave with the N.A.S.A. Office of Space Sciences, will participate in the scientific programs of a commission. Dr. Schmerling will represent NASA at the meetings.

Mars life is century's experiment

DR. ERNEST C. POLLARD speaks calmly and objectively about the problems and possibilities of the exploration of outer space but with so much obvious enjoyment as to suggest he wouldn't mind being the first astronaut-scientist to explore Mars.

If he were to do so, it would be quite in keeping with his background of urgently seeking new areas of knowledge to investigate, to be the first to get there, whether it is to find the answer to a tough problem in nuclear physics, to discover the ways to improve radar, or to add some choice bit to our understanding of the molecular biology of the cell (all of which he has already done).

"I am convinced we can add to our basic knowledge of life by exploring in outer space," Dr. Pollard says. "The possibilities are very exciting to me. We don't yet understand completely our own life system, but perhaps studying the life system on Mars, if one exists, will help us do so."

Discussion of life systems in outer space inevitably by-pass the Moon and Venus, because Mars holds so much more promise, but Dr. Pollard does not rule out the possibility of some form of life in either, especially below the surface of the Moon and in the cloud layer surrounding Venus. He points out, for example that in the "deadest" material in the Sahara Desert there exist 10,000 microorganisms per gram.

"To what extent Martian soil is 'livelier' is only one of the questions biophysicists and biologists want answered," he says. "From what we know about Mars the environment seems capable of supporting life. The presence of carbon dioxide in the atmosphere and water from polar ice caps is generally accepted. Temperatures as high as 25 dec. C. have been measured at the equator."

Dr. Pollard, as one of the participants of the Working Group on Biology of the National Aeronautical and Space Agency's Space Study, aided in the preparation of a report last summer which described briefly some of the present knowledge of space biology and added:

"If there is life on Mars, the biologists' interest will not stop with its discovery. In one sense, the quest will have only begun. The analysis of Martian life—or even Martian paleontology if the planet has passed through that phase of its development during which it could sustain life—will be a grand extension of the comparative method that characterizes most of biological analysis. Shall

Dr. Ernest C. Pollard, subject of the accompanying story, is head of the department of biophysics in the new College of Science. A member of the faculty here since July, 1960, when he came as distinguished visiting professor of biophysics from Yale University, Dr. Pollard is internationally known in a number of broad fields. He completed bachelor of arts and doctor of philosophy degrees in nuclear physics at Cambridge University, England, and became one of the pioneers in this field. He went to Yale as research fellow in 1933 after three years at Leeds University. On leave from Yale in World War II, he headed a division of the Radiation Laboratory at M.I.T., concerned with the development of microwave ground and ship radar. He changed his concern to biophysics after the war and was named head of the biophysics department at Yale in 1954. He is the author of a number of books and many technical articles.



we find on Mars some of the unexplained peculiarities of terrestrial biochemistry? If amino acids are involved, are they *D* or *L* forms, or both? Does adenine, for instance, again play so many roles. Is the energy transfer system again based on phosphorus? What is the genetic mechanism like? . . . Has sex again been evolved or have some other devices arisen to engender genetic variability?"

Martian life-detection systems undoubtedly will be carried out first from a distance, employing measuring devices such as spectroscopic observations from balloons, orbiting observatories, or fly-bys, or photographs from fly-bys.

"An appealing method, too," Dr. Pollard says, "will be the use of vidicon television system to survey at least microscopic structures and relay the picture to scientists on Earth."

"Ultimately, however, there will have to be landing spacecraft, not

necessarily manned at first, to collect samples, for microscopic examination, for studies of CO₂ assimilation, for detection of enzyme activity, and other experiments for life-detection."

If Dr. Pollard were the first scientist to make the Mars journey, he would start his search with the obvious—trees, grass, and the like. And after the obvious, he would make measurements of the atmosphere, search for agents for chemical energy—in short, all signs other than the obvious which indicate life.

"A great deal of the problem to biologists is how to make these studies without contamination of either Mars or the Earth," says Dr. Pollard. "NASA has a policy requiring sterilization of spacecraft which might land on Mars either accidentally or intentionally; we don't have international agreements on such matters."

"Also, we want to prevent the introduction into the Earth's biosphere of harmful organisms from Mars or intervening space. It would be ironic, wouldn't it, if while we were looking for life on Mars we brought death to the Earth."

Although the biologist's role in space research is most dramatic in relation to the detection of life elsewhere, he is equally concerned about putting man into space adequately protected and sustained and about exploiting the special features of space environment for studies of organism-environment relationships.

"Man lives in an environment influenced by both gravity and the Earth's rotation," Dr. Pollard explains. "Patterns of growth, orientation, and other responses to gravity are easily observed in a large variety of plants and animals; also the influences of circadian rhythms (those having a period of about a day) are many. What will be the response of animals and plants when gravity and time factors are altered, as in space?"

"We can make some logical calculations on these matters but we will only be sure of our theories when the biological systems can be studied extraterrestrially."

"The dividends from such research may not be as great as those from other studies in space, but we now have before us an opportunity that is one of the most exciting and challenging man and science have ever known—a chance to gain a new insight on man's place in nature and a wide horizon for discussion of the meaning and nature of life."

"Life on Mars is the experiment of the century."

PERSONNEL MATTERS



Dr. John A. Mourant, professor of philosophy, has been named Research Scholar of the College of the Liberal Arts for the Winter and Spring Terms, in recognition of his continued achievements in scholarly research. This is the second time he has been named Research Scholar, the first being in 1960.

A member of the faculty since 1946 and previously on the faculties of DePaul University, Navareth College, St. Xavier's College, and the University of Rochester, Dr. Mourant has published more than 25 papers in various philosophical journals and of the books, "Reading in the Philosophy of Religion" (1954) and "Formal Logic" (1963). His book, "An Introduction to the Philosophy of St. Augustine" will be published early in 1964 by Crowell-Collier Press.

Dr. Philip A. Klein, associate professor of economics, will be on leave during the Fall and Winter Terms to serve as a guest lecturer in economics at the Institut Européen d'Administration des Affaires, at Fontainebleau, France, under a Fulbright grant. He will also engage in research.

Dr. Maurice C. Inman, senior research associate in the Advanced Materials Research and Development Laboratory of Pratt and Whitney Aircraft, has been appointed associate professor of engineering mechanics and will develop special areas of materials science. He received his doctorate at the University of Leeds, London, and held positions in the Metallurgy Division of the National Physical Laboratory in England before coming here.

Dr. Margaret B. Matson, associate professor of sociology, will be on leave from Sept. 25 to June 15, 1964, to continue research on the history of social welfare in England and the United States in preparation for a book. She will spend the last five months of her leave at the Beirut College for Women, in Lebanon, studying the Near East family.

Lawrence E. Murr, instructor in engineering mechanics at the University while on leave from Sept. 23 to Dec. 16.

Robert Wendell Douglass, soil scientist and forester in the U. S. Forest Service since 1960, has been appointed assistant professor of forestry for the Mont Alto campus and will instruct courses in the new two-year associate degree program.

Odland winner

Dr. Martin L. Odland, professor of olericulture, has been given the Leonard H. Vaughan Memorial Award for the year's outstanding research paper dealing with vegetable crops. He received the award also in 1950.

Dr. Odland's winning paper was titled, "Genetics of Incompatibility in Broccoli *Brassica oleracea* variety *italica*."

The paper was published in Proceedings of the American Society for Horticultural Science and since its publication Dr. Odland has received requests for copies from scientists in all parts of the world.

The award consisted of a silver plaque and \$100.

A member of the faculty since 1943, Dr. Odland is in charge of vegetable crop teaching and research work.

Atwater testifies

Dr. Elton Atwater, head of the department of political science, testified Sept. 11 before the House Foreign Affairs Committee in support of the permanent authorization for the Arms Control and Disarmament Agency.

Speaking on behalf of the Friends Committee on National Legislation, Dr. Atwater, who has testified before a number of other Senate and House Committees, urged that the Committee approve a permanent authorization for the ACDA, especially so in view of the current discussions on nuclear test bans.

As part of his testimony, Dr. Atwater made the suggestion that the United States offer to abandon one military base on the periphery of Soviet territory in exchange for every two or three annual inspection visits the Soviets would be willing to accept. He used the example in citing the need for research by the ACDA and in turn the need for more money and more permanency for the organization.

Choral society

Members of the faculty interested in choral singing may wish to become familiar with the State College Choral Society, which will prepare this year to sing Johann Sebastian Bach's "Magnificat and Cantata No. 21," directed by Raymond Brown, associate professor of music at the University. A concert is planned for the spring.

First meeting of the group will be held Monday, Sept. 23, at 7:30 p.m. in St. Paul's Methodist Church.

GRANTS



F. A. Joy, engineering experiment, \$1,000, National Mineral Wool Insulation Association, for research on mineral wool-macerated paper.

W. A. Weyl, mineral industries experiment, \$2,000, Corning Glass Works Foundation, for preparation of the book, "Constitution of Glasses."

J. R. Snyder, chemical engineering \$23,760, American Chemical Society, for studies of liquid-liquid solubilities.

H. A. Panofsky, meteorology, \$12,840, National Institutes of Health, for meteorological analysis, Pennsylvania Air Quality data.

J. C. Frey, agricultural economics, \$47,900, Penna. Dept. of Highways, for studies of the impact of highway improvement on land use, business enterprise and community development.

Ossian MacKenzie, Business Administration, \$1,000, Haskins and Sells, faculty assistance grant for accounting instructors.

Wilbur Zelinsky, geography, \$5,700, National Science Foundation, for studies of population geography of middle America.

C. W. Burnham, geology, \$41,000, National Science Foundation, on the role of water and other volatiles in magmatic processes.

Stuart Patton and **R. D. McCarthy**, dairy science, \$22,320, U. S. Public Health Service, for studies of structure and synthesis of milk fat.

R. T. Houlihan, zoology, \$12,000, U. S. Public Health Service, for research on endocrine adaptation.

G. E. Rindone, ceramic technology, \$41,400, National Science Foundation, for studies of relaxation processes in glass.

D. R. Mitchell, mining engineering, and **D. R. Maneval**, mineral preparation, \$18,000, Molybdenum Corp. of America, for research on rare metal processing.

C. R. Carpenter, UDIS, \$2,100, U. S. Army Garrison IGMR.

W. H. Getolski, civil engineering, \$18,000, Penna. Dept. of Highways, for condition survey and study to evaluate paving asphalt properties.

H. B. Curry, mathematics, \$36,500, National Science Foundation, for research in combinatory logic.

Santislav Mrowka, mathematics, \$22,700, National Science Foundation, for studies of axiomatics of topology and structures of continuous functions.

Arthur Rose, chemical engineering, \$30,404, U. S. Public Health Service, for research in high temperature preparative vapor chromatography.

B. S. Palermo, psychology, \$10,600, National Science Foundation, for studies of associative processes in children's verbal learning.

J. E. Wright, Jr., botany, \$26,000, National Science Foundation, for immunogenetic studies in salmonidae and esocidae.

D. S. Palermo and **James Jenkins**, psychology, \$19,283, National Institutes of Health, for research on word association norms.

Danforth

Approximately 100 Graduate Fellowships will be awarded to outstanding male college seniors or recent graduates preparing for a career of teaching, counseling, or administrative work at the college level by the Danforth Foundation, of St. Louis, Mo., nominations for which will close Oct. 15.

Information about the Fellowships may be obtained from Dr. M. N. McGarry, 201 Old Main.

Awards will be made to outstanding candidates nominated by Liaison Officers of accredited colleges and universities in the United States and nominees will be judged on intellectual promise and personality, integrity, genuine interest in religion, and high potential for effective college teaching.

Winners will be eligible for four years of financial assistance, with an annual maximum of \$1500 for single men and \$2000 for married men plus dependency allowances for up to three children, and tuition and fees.

Hanson in exhibit

Bill Hanson, assistant professor of art, is one of three photographers and artists represented in an exhibition of prints at The George Eastman House, Rochester, N. Y., which opened Aug. 21 and will extend through Oct. 21.

The exhibition, titled "Three Photographers," is part of a continuing program established in 1961 by Nathan Lyons, assistant director, to present significant work being done by younger photographers. Two are scheduled each year.

Hort show

The annual Horticulture Show, traditional event of Homecoming Weekend, will be held Oct. 5 and 6 on the theme "Art, Science, and Society," and will feature a full-sized greenhouse, model of a six-foot apple tree, and a display commemorating the 50th year of the show.

Students in the Horticulture Club sponsor the event, which each year attracts thousands of visitors. The show will be held in the Pavilion (Ice Rink).

Football lunches

Again this year the department of housing and food services will make available facilities at East Halls to the public to obtain lunch just before home football games.

At a cost of \$1.25, the regular student meals consisting of an entree, vegetable, salad, dessert, bread, coffee, tea or milk will be served cafeteria-style from 11 a.m. to 12:45 p.m. Vending machine services are also available in the East Halls Snack Bar.

As usual, the Terrace Room and Lion's Den Snack Bar in the HUB will also serve the public.

Adult programs

This fall and winter Continuing Education Services will offer more than 800 late-afternoon and evening courses for adults in 73 communities on a variety of subjects, ranging from corporation finance to interior decoration and from education of the mentally retarded to technical writing.

ITEMS OF INTEREST



Articles and Papers

GOLDBERG, M. H., C.C.L.E., "The Humanities and the Discovery of New Knowledge," in the Current Issues in Higher Education: 1963.

LEHMANN, WILMA H., zoology, "The Forelimb Architecture of some Fossorial Rodents" in the July issue of the Journal of Morphology.

MORSE, J. M., English, "The Ideal Core of the Onion: Samuel Beckett's Criticism" at the Ninth Congress of the International Federation for Modern Languages and Literatures in New York, Aug. 25-31.

PIERS, ELLEN V., and HARRIS, D., psychology, "Development of a Wide-Range Self-Report Instrument for Children," at the annual meetings of the American Psychological Association in Philadelphia.

SNOWDON, J. C., Ordnance Research Laboratory, "Transverse Vibration of Simply Clamped Beams" in the August issue of the Journal of the Acoustical Society of America.

TAYAMA, H. K., horticulture extension, "Relationship of Plant Age to Optimum Growing Temperature and Net Assimilation Rate of Chrysanthemums," before the annual meeting of the American Society of Horticultural Science.

THEOCARIS, P. S., engineering mechanics, "Viscoelastic Behavior of Flexibilized Epoxy Polymers in Their Transition Region" at the Fourth International Congress on Rheology, at Brown University.

TUKEY, L. D., horticulture, "A Linear Electronic Device for Measuring and Recording Plant Enlargement Continuously" at the American Institute of Biological Sciences meeting at Amherst, Mass.

faculty BULLETIN

Vol. 51, No. 10 Sept. 20, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

THE ARTS



artists series

The first Artists Series program of the Fall Term will be held Friday, Oct. 4 in Schwab Auditorium at 8:30 p.m. with a Japanese program featuring Kimio Eto, kotoist, and Suzushi Hanayagi, classical dancer.

Tickets for the program will be on sale to the public from 9 a.m. to 5 p.m., Oct. 2 and 3 at the HUB desk.

Eto, who is blind, is recognized as an outstanding musician. Not only is he the acknowledged master of the koto, which is an Oriental stringed-instrument, but is a composer of considerable note as well. He will combine with Miss Hanayagi to present the "Jiuta," or dance ballad, called "Kurokami," which means "Black Hair."

In connection with the program, a free film program will be shown Thursday, at 8 p.m. in Schwab Auditorium in which will be included two short films on the Japanese Dance, featuring Miss Hanayagi, and another on the dance drama.

frost show

Drawings and watercolors by Stuart Frost, assistant professor of art, will be exhibited in the HUB Gallery from Sunday, Sept. 29 to Oct. 18. A reception will mark the opening of the exhibit Sunday from 7 to 9 p.m. in the Gallery.

Frost has exhibited three times previously since 1951, when he completed
(Continued on page three)

Luncheon Club

An open invitation is extended to all members of the faculty to attend the weekly Faculty Luncheon Club meetings, the first of which will be held next Monday at 12:30 p.m. in the HUB Dining Room "A." Guest speaker will be Dr. Harold E. Mitzel, assistant dean for research in the College of Education, speaking on the subject, "An Outlook for Computer-Guided Instruction."

The Faculty Luncheon Club is an hour-long informal meeting of members of the faculty at luncheon aimed primarily at providing a means by which the activities of the faculty can be explained to others. Sometimes an outside speaker is scheduled for a topic of general interest.

There are no dues in the Club, nor are there attendance requirements. The Club is now in its 20th year.

Luncheon tickets are sold at the HUB desk each Monday.

International

Members of the faculty are urged to call to the attention of all international students, but particularly those newly arrived, that an Orientation Program sponsored by the University Christian Association will be held this evening (Friday) at 7:30 p.m. in the Faith United Church of Christ at the corner of Locust Lane and College Ave.

The faculty is also invited to attend the program, at which will be given several talks intended to help the students make the transition to living in State College. Mrs. Albert Hunter will speak on "Problems of Housing, Food, and Shopping"; Richard Spencer on "Contrasting Academic Expectations"; and Richard Criley, on "Social and Recreational Opportunities."

Following the talks discussions will be held between small groups of the students and members of the faculty.

Peace Corps

Dr. Samuel D. Proctor, who served in the Peace Corps for a year and a half first as director in Nigeria and later as associate director, will speak on "The Peace Corps: Evaluation and Prospect" Saturday, Oct. 5, at 8 p.m. in the Memorial Lounge of the Helen Eakin Eisenhower Chapel.

Everyone interested in the topic is invited to attend the talk, which is sponsored by the U.C.A.

Dr. Proctor has only recently returned to his office as president of North Carolina A. and T. College.

President elected

President Walker has been elected chairman of the Naval Research Advisory Committee for a one-year term. The announcement was made this week by Secretary of the Navy, Fred Korth.

The Committee, which is the only public scientific advisory committee specifically named by public law, was established in 1946. The Committee advises the Secretary of the Navy, the Chief of Naval Operations, and the Chief of Naval Research on scientific matters. Headed last year by Dr. E. R. Piore, vice president for research and engineering of I.B.M., the Committee is composed of 15 civilians who are "pre-eminent in the fields of science, research, and development work." Dr. Walker was first named to the Committee on Jan. 1, 1956, and has been serving as vice-chairman since 1960.

The Committee has provided valuable counsel since 1946 in formulating plans for the wartime organization of science, for scientific manpower mobilization, and for the Navy's general policy for the conduct of defense research projects at universities.

PERSONNEL MATTERS



Dr. Franklin G. Fisk, assistant professor of science education at Northeast Missouri State Teachers College, Kirksville, Mo., has been appointed assistant professor of secondary education. He obtained all three degrees from the University of Kansas and has taught in schools in Missouri and Kansas.

Mrs. Charlotte V. Churaman has been appointed instructor in home-community relationships as coordinator for the College of Home Economics in the adult education courses of the Home and Family Living program of the State College area schools. She was graduated from Potomac State School of West Virginia University and received a bachelor of science degree from Berea College. She has taught in Kentucky schools, was a county home demonstration agent in West Virginia, and was responsible for the development of the home economics program and extension work in British Guiana until February of this year.

Dr. Kenneth H. Wedtke, since 1958 research assistant and teaching assistant at the University of Utah, has been named assistant professor of educational psychology. He received degrees from the University of Utah. His research has been concerned with teacher classroom behavior and with creativity tests.

Dr. Carl H. Wolgemuth has been named assistant professor of mechanical engineering. He received his bachelor's degree from Penn State in 1956 and master of science and doctor of philosophy degrees from Ohio State University, where he has been instructor in mechanical engineering.

SENATE MINUTES



ANNUAL REPORTS OF COMMITTEES ON FACULTY AFFAIRS

Meetings of the Committee:

The Committee held meetings on November 14, December 4, February 1, February 8, February 15, February 22, March 1, March 8, March 15, April 23, April 30, May 14.

Rank of Professor Emeritus:

Vice-President Rackley requested the Committee to study the rank of professor emeritus, to define its status, and to outline its privileges.

A subcommittee composed of Professors Hutchison, Isenberg, and Smith was appointed. Subsequently, their report received unanimous approval of the Committee and was forwarded to Vice-President Rackley and to President Walker.

A copy of this report appears as Appendix A.

Academic Tenure Policy:

At the request of Vice-President Rackley, the Committee considered proposed changes in the academic tenure policy.

Upon thoughtful deliberation on the several aspects of the proposed changes and in consultation with Dr. Rackley, the Committee recommended changes in the proposed policy.

University Faculty Club:

For several years the Committee has been considering plans for a Faculty Club facility either as a single, independent unit on campus or in conjunction with proposed expansions of the Hetzel Union Building or the Nittany Lion Inn.

Because the work of the subcommittee investigating this matter has been continuing since April 1960 and because of the numerous proposals that have been studied, the subcommittee was requested to prepare a written summary progress report as of January 1963.

It is the subcommittee's opinion that the project is a hopeless one at this time and has asked to be discharged.

This report is attached as Appendix B.

Tuition Exchange:

The Committee explored the tuition exchange idea now in existence in some colleges and universities over the nation.

Dr. R. R. Brooks, Executive Director of Tuition Exchange, Williamstown, Massachusetts, stated in his reply to the Committee's inquiry that:

At this time in the history of American education, I cannot encourage any institution to join Tuition Exchange. Although the principle of aid to faculty members in meeting the costs of their children's college education is firmly established and will become even more widely adopted, it is equally clear that the barrier system (tuition exchange) is a relatively primitive method of effecting this principle.

The Committee then considered the possibility of grants-in-aid to faculty children in lieu of tuition exchange and learned

through the President's Office that such an action was illegal. The subcommittee was then discharged and the matter laid aside pending further developments.

Deferred Retirement Benefits:

The Committee has continued its efforts to have Public Law 350 amended so as to allow for deferred benefits to Pennsylvania State University faculty members who discontinue their service to the Commonwealth for reasons other than death or retirement.

A year ago a bill to amend Public Law 350 was drafted by the Legislative Reference Service at Harrisburg. In December 1962 an actuarial study of costs of the proposed benefits was completed for members of the Public School Employees' Retirement System. The possibility is now being explored of having a similar actuarial study made for members of the State Employee's Retirement system.

Although a great deal of progress has been made in the past several years, much work remains yet to be done. The Committee plans to continue work on this project.

Term of Office on the Standing Committee on Tenure:

The Committee considered the term of office of faculty representatives to the Standing Committee on Tenure and decided not to recommend a change from the present unlimited term.

To take care of vacancies on the Tenure Committee, two proposals were offered as resolutions to the elected Senators when they convened on May 7:

1. In the event an elected member of the Tenure Committee is unable to serve by virtue of being on leave or temporarily incapacitated, it shall be the duty of the Chairman of the Tenure Committee to notify the elected members of the Senate in order that they may choose a temporary substitute.
2. In the event an elected member of the Tenure Committee resigns from the Committee or leaves the University, it shall be the duty of the Chairman of the Tenure Committee to notify the elected members of the Senate in order that they may choose a replacement.

These proposals were passed unanimously by the elected Senators and forwarded to President Walker as recommendations.

Norman C. Pendered, Chairman

(Note: Appendices A and B of this report will appear in next week's Faculty Bulletin.)

Graduate exams

The schedule of Graduate Record Examinations administered by the Educational Testing Service has been announced. The examinations will be held at many centers on Nov. 16, January 18, March 7, April 25, and July 11.

Registration forms and fees must be received at the ETS office at least 15 days before the testing date.

Information bulletins and a test registration form may be obtained by contacting Dr. Gordon H. Pritham, 101 Frear Lab.

FELLOWSHIPS

NSF DEADLINES

Faculty members are asked to call the attention of outstanding seniors and graduate students to the fact that the deadline for National Science Foundation Cooperative Graduate Fellowships for 1964-65 is fast approaching. Complete application materials must be in the office of the dean of the graduate school of the student's choice by Nov. 1.

Approximately 4,000 fellowships in science will be awarded, apportioned between "Cooperative" and "Regular" graduate fellowship programs in such a manner that individuals of comparable ability receive awards in each program. The deadline for the regular program is Jan. 3, and announcements for this program will be made in October.

Cooperative Fellowships are available in the biological, engineering, mathematical and physical sciences, anthropology, economics (excluding business administration), geography, history and philosophy of science, psychology (excluding clinical), and sociology (excluding social work); also biophysics, geochemistry, and meteorology. The Fellowships pay \$2400-\$2800 for 12 months, plus \$500 for each dependent, a grant-in-aid to cover all tuition, and holders may receive an additional stipend of up to \$1,000 for 12 months if his department chooses to provide it.

Application materials may be secured at the Graduate School Office in Room 101 Willard. In order to save time and work, the student should take with him a written statement from the department to the effect that his application will be supported by the department.

NSF Summer Fellowships for those who have been teaching assistants for at least three Penn State terms are also being considered now. Graduate students are advised that they may hold both Cooperative and Summer Fellowships in the same year (although not to run concurrently). Application materials and other data may be supplied at the same time for the two types of fellowships.

WOODROW WILSON

Approximately 1,000 Woodrow Wilson Fellowships for first-year graduate study will be awarded this year. The nomination deadline is Oct. 31.

The fellowships are provided by the Woodrow Wilson National Fellowship Foundation to students who have a serious interest in a college teaching career, and especially those in the humanities and social sciences, although science and mathematics majors may be nominated if they have a clear interest in college teaching and if they apply for simultaneously and accept if awarded a National Science Foundation Fellowship.

The student must be nominated by a member of the faculty in a letter or postcard to Prof. Paul Fussell, Jr., Box 532 Rutgers University, New Brunswick, N. J., stating the candidate's name, address, and proposed field of study.

Questions may be directed to the Office of the Assistant to the President, UN 5-6577, 201 Old Main.

ITEMS OF INTEREST



Elected and Appointed

MACKENZIE, OSSIAN, Business Administration, reappointed by Secretary of Commerce, Luther H. Hodges to the Philadelphia Export Expansion Council.

RAMSEY, R. H., engineering research, elected secretary-treasurer of the National Conference on the Administration of Research.

REMICK, F. J., Nuclear Reactors, appointed to the Research Reactor Subcommittee of the Division of Physical Sciences of the National Academy of Sciences-National Research Council.

ROSE, ARTHUR, chemical engineering, elected chairman-elect for 1964 of the Division of Industrial and Engineering Chemistry of the American Chemical Society.

STAHL, C. D., petroleum and natural gas engineering, appointed to serve on the Technical Advisory Committee of the Well Coring-Reservoir Appraisal Project for the State Bureau of Mines.

WARTIK, THOMAS, chemistry, appointed to the advisory screen committee to select Fulbright fellows for overseas assignment under the Fulbright-Hays Act.

PALLADINO, N. J., nuclear engineering, elected chairman chairman of the nominating committee of the American Nuclear Society for 1964.

Lectures and Talks

FAGAN, E. R., secondary education, "The Slow Learner in the Language Arts" at Bloomsburg Area Joint Schools Teachers' Workshop on "The Challenge of the Slow Learner," Sept. 3.

PERKINS, H. W., Wyomissing, "Carriers of Promise," at the meeting of the Reading Chapter of the Society of Professional Engineers, Sept. 11.

TRIEBOLD, H. O., JR., Safety, lectured at the Annual Pennsylvania State Fire School at Lewistown, Aug. 23, on newer fire problems.

ZELKO, H. P., speech, "The Bell System Speaker Training Program," at meetings of the Speech Association of America and the National Society for the Study of Communication, in Denver.

Articles and Papers

BROWN, J. L., JR., Ordnance Research Laboratory, "On the Generation of Uncorrelated Random Outputs by Nonlinear Processing of a Single Noise Source," at the annual Pacific meeting of the I.E.E.E., at Seattle, Wash.

COOPER, E. L., zoology, with Wagner, C. S., "Population Density, Growth, and Fecundity of the Creek Shubsucker, *Erimyzon oblongus*" in the June 14 issue of *Copeia*.
—with BOCCARDY, J. A., "The Use of Rote-none and Electro-fishing in Surveying Small Streams," in the July issue of the *Transactions of the American Fisheries Society*.

DUBIN, S. S., Continuing Education, "The Determination and Management of Supervisory Training Needs in Hospitals" at the Philadelphia meeting of the American Psychological Association.

EBERHART, R. J., WAIRIOUS, G. H., HOKANSON, J. F., and BURCH, G. E., dairy, "Persistence of Antibacterial Agents in Milk After Intramammary Treatment of Clinical Mastitis" and "Persistence of Antibacterial Agents in Milk after Intravenous Treatment of Acute Bovine Mastitis" in the Aug. 15 issue of the *Journal of the American Veterinary Medical Association*.

FOLEJEWSKI, ZBIGNIEW, Slavic languages, "C. K. Norwid's Prose and the Poetics of the Short Story," at the Fifth International Congress of Slavists in Bulgaria.

GOLDBERG, M. H., C.C.L.E., "The Humanities as Hueristics" in the June issue of the *CEA Critic*, publication of the College English Association.

KARDOS, L. T., agronomy, with BRYNES, W. R., "Hydrologic Characteristics of Three Soils Supporting Natural Hardwoods, Planted Red Pine, and Old Field Plant Communities," in the July-August issue of the *Soil Science Society of America Proceedings*.

LOVELL, H. L. and MANEVAL, D. R., mineral preparation, "Sample Preparation for Spectrometry by the Borox Disk Technique" in the new *Encyclopedia of V-Rays and Gamma-Rays* published by Reinhold Publishing Co.

McKEE, G. W., agronomy, "Influence of Day-length on Flowering and Plant Distribution in Birdsfoot Trefoil" in *Crop Science*.

MONTGOMERY, G. G., zoology, "Nocturnal Movements and Activity Rhythms of White-Tailed Deer," in the July issue of the *Journal of Wildlife Management*.

MUELLER, E. W., physics, "Current-Voltage Characteristics of the Helium Field Ion Microscope" and "Field Induced Surface Defects" at the Field Emission Symposium at Baldwin-Wallace College.

—"Morphology of Field Evaporated Metal Crystals," at the Congress of the International Union of Crystallography" in Rome, Italy.

—"Progress in Field Ion Microscopy," at a Conference on Electron Microscopy at Zurich, Switzerland.

ODLAND, M. L. and GROFF, D. W., olericulture, "Linkage of Vine Type and Geotropic Response with Sex Forms in Cucumbers *Cucumis sativus* L., in the Proceedings of the American Society for Horticultural Science.

PATTON, STEWART, COBB, W. Y., and GRILL, HERMAN, dairy, "Occurrence of Vanillin in Heated Milks" in the June issue of the *Journal of Dairy Science*.

ROY, RUSTUM, Materials Research Laboratory, "High Temperature-High Pressure Phase Transformation" at the biennial International High Temperature Symposium sponsored by the Stanford Research Institute at Pacific Grove, Calif.

At American Chemical Society meetings in New York, papers by the following: R. W. TAFT, "Organic Cation Solvation and the Acidity Function"; N. C. DENO, "The Ultimate Fate of Aliphatic Carbonium Ions in Sulfuric Acid"; J. A. DIXON, "Alkylation of Aromatic Hydrocarbons by Alkyl Lithium"; F. W. LAMPE, "Proton Affinities of

(Continued on page four)

ARTS —

(Continued from page one)

student work at Brooklyn Museum. Since then he has shown his works twice in HUB exhibits, the last time three years ago. He explains that he likes to exhibit to (1) see himself, analyze his work's consistency, analyze outside the studio; (2) invite the approval or disapproval of those who take the time to become involved in his art; (3) make a periodic report to the University on his personal research and professional development.

Frost was trained at Penn State, the Brooklyn Museum, and New York University and has studied with Hobson Pittman, Henry Poor, Ben Shann, Max Beckman, and Abraham Rattner. He has exhibited also at the Metropolitan Museum, the Museum of Modern Art, the Pennsylvania Academy of Fine Arts, the Boston Arts Festival, and the Butler Art Institute.

art exhibit

A selected group of art works from the permanent collections of The Albright-Knox Art Gallery in Buffalo, N. Y., and the Solomon R. Guggenheim Museum in New York, and a special item from Rolls-Royce Incorporated, will be exhibited in the Mineral Industries Art Gallery from October 6 to Nov. 16, sponsored by the College of Arts and Architecture.

Richard Fraenkel, director of exhibitions for the College, points out that the theme of the exhibit, "Aspects of the Apollonian Ideal," is carried out in paintings and sculpture which direct the viewer's attention "to precise relationships, mathematical, geometrical arrangements, part-to-part balancing, shallow space, the edge of 'things,' drawing versus painting . . . the prototype, purity, the unambiguous, the unequivocal."

"In the future," he adds, "we hope to have exhibits which reflect other 'isms' and to touch some unexplored territories."

A public reception to mark the opening of the exhibit will be held Sunday, Oct. 6, from 7-11 p.m. in the M.I. Gallery.

On Oct. 13, at 3 p.m. in the Mineral Industries Gallery a panel discussion on the exhibit will be conducted by William Daley, sculptor and potter; Frank Ehrenthal, architect; Richard Fraenkel, painter; George Mauner, art historian; Samuel Sabean, painter and sculptor; and Bruce Shobaken, painter and printmaker.

The exhibit will include such art works as Pablo Picasso's "Woman with Guitar" and Signori's "Venus."

(Continued from page three)

Some First Row Hybrides" and "Mechanism of the Low-Temperature Scavenging of Methyl Radicals by Nitric Oxide"; and K. A. GINGRICH, "Phosphorus Dissociation Pressures of Molybdenum Monophosphide."

At the annual meeting of the American Society for Horticultural Science, papers by the following: C. W. HAESLER and H. K. FLEMING, "Effect of Various Controlled-Temperatures during Blossoming on Fruit and Vegetative Development in Concord Grapes"; L. D. TUKEY and A. D. HORNE, "A Study in Predicting the Harvest Size of Montmorency Sour Cherry Fruits"; C. B. SMITH, "Leaf Composition, Yield Vigor, and Quality of Snap Beans as Affected by Differential Fertilizer Treatments"; J. R. BREWER and R. P. MEHL, "Growth and Foliar Element Response in *Ilex Crenata*, Green Island, at Varying Nutrient Levels"; J. W. WHITE and J. W. MASTALERZ, "The Response of Potted Chrysanthemums to a Single Application of a Coated Fertilizer"; L. D. TUKEY, "A Linear Electronic Device for Measuring and Recording Plant Enlargement Continuously"; K. C. SINK and D. E. WALKER, "Embryo-sac Morphology and Cytological Investigations of Crosses in Chromosomal Cultivars of Poinsettias"; RICHARD CRAIG and D. E. WALKER, "The Inheritance of Several Characters in the Geranium"; and B. A. HAMILTON and D. E. WALKER, "A Study of Cytoplasmic Male Sterility and Fertility Restoration in *Petunia*."

At the annual meeting of The Rural Sociological Society, papers by the following: E. J. BROWN, "Adaptation of a Large Organization to a New Clientele"; F. C. FLIEGEL, "Receptivity to New Ideas in an Area of Small Farms, Rio Grande do Sul"; R. C. BEALER, F. K. WILLIS, and W. P. KUVLESKY, "The Meaning of 'Rurality': Some Implications of Alternative Definitions."

GRANTS



Seymour Calvert, mechanical engineering, \$30,240, U. S. Bureau of State Service, for basic study of air pollution control wet-scrubbers.

Harald Schraer, biophysics, \$23,522 U. S. Public Health Service, for study of the ultrastructure of calcium transporting tissues.

A. S. Hunter, agronomy, \$2,000, International Minerals and Chemical Corp., in support of phosphate fertilizer research.

B. A. Whisler, civil engineering \$3,000, H. R. Imbt Services, Inc., for graduate fellowship in civil engineering.

James Tammen, plant pathology, \$600, Pennsylvania Flower Growers, for geranium and carnation studies.

A. S. Hunter, agronomy, \$200, American Cyanamid, fertilizer research.

Dan Sherr and George Jennings, Land and Water Resources Institute, \$48,2100, Pennsylvania Dept. of Highways, for an economic study of highway severance damage.

Joseph Krawiec, clothing and textiles, \$500, John J. Kane Hospital, for Institutional Laundry Program.

Graduate lecture

Dr. O. Hobart Mowrer, noted and controversial psychologist of the University of Illinois, will be the opening speaker in the Fall Term Graduate Lecture Series Thursday, Oct. 10, at 8 p.m. in Room 121 Sparks. His subject will be, "Science, Religion, and Student Values."

Senate meeting

The University Senate will meet Tuesday, Oct. 1, at 3:55 p.m. in Room 121 Sparks.

CALENDAR



Friday, Sept. 27

Fall Term registration ends at noon.

Saturday, Sept. 28

Football, vs. U.C.L.A., Beaver Stadium, 1:30 p.m.

Sunday, Sept. 29

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Robert W. Duke, associate professor of homiletics, Lancaster (Pa.) Theological Seminary, on "Hearing and Doing."

Reception marking opening of Stuart Frost art exhibit, 7-9 p.m., HUB Gallery.

Monday, Sept. 20

Fall Term classes begin, 8 a.m.

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Harold E. Mitzel, assistant dean for research, College of Education, on "An Outlook for Computer-Guided Instruction."

Tuesday, Oct. 1

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Thursday, Oct. 3

Chemistry Colloquium, 12:45 p.m., 310 Whitmore. M. L. Bender, Northwestern University, on "The Mechanism of Chymotrypsin-catalyzed Hydrolysis."

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Movie on Japanese dance (preliminary to Artists Series program), 8 p.m., Schwab.

Friday, Oct. 4

Artists Series program by Kimio Eto, kotoist, and Suzushi Hanayagi, classical Japanese dancer, 8:30 p.m. Schwab.

UCA Faculty Seminar on theme, "The Renewal of the Church," 12 noon to 1:30 p.m., small lounge, The Chapel. Also each Friday of Fall Term.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. David D. Soule, Research Laboratories, National Carbon Co., on "Effect of Boron on the Electronic Properties of Single Crystal Graphite."

faculty BULLETIN

Vol. 51, No. 11 Sept. 27, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

PERSONNEL MATTERS



DIED

John Arden Ferguson, who headed the forestry work here from 1912 until his retirement in 1937 died at the age of 90, Sept. 26. He came here in 1908 but went to the University of Missouri in 1910 to initiate the work in forestry and returned in 1912. He was a graduate of Hamilton College in New York and received the master of forestry degree from Yale.

APPOINTED

Dr. Allan M. Krall, native of State College and graduate of Penn State in 1958, has been named assistant professor of mathematics. His master's and doctor's degrees were conferred by the University of Virginia. His research is concerned with extension of the Root Locus Method to time-lag systems.

Dr. C. Michael Lanphier, instructor in sociology at the University of Michigan, has joined the faculty as assistant professor of sociology and anthropology. He was graduated by Harvard University with a bachelor's degree in social relations and received master's and doctor's degrees in social psychology at Michigan.

Dr. Edgar C. Leduc, graduate of the University of Rhode Island in political science, has been named assistant professor of political science and public administration. His doctor's degree was conferred by Indiana University this year. His research is concerned with interlocal relations and planning.

Dr. Richard Gregg, former assistant instructor at the University of Pittsburgh, has been named instructor in speech. He was graduated from the University of Wichita and received master's and doctor's degrees from Pitt, where he served on the faculty since 1961. His research has been concerned

(Continued on page four)

International

A Campus-Community International Tea Party will be held Sunday, Oct. 13, from 2 to 5 p.m. at the Conference Center, sponsored by many campus and community organizations.

All international students and members of the faculty and their wives are invited. Refreshments will be served and information concerning international programs in the community and on the campus will be made available.

Cooperating in the project are the University Student Government, Cosmopolitan Club, the University Christian Association, United Church Women, Altar Society, B'nai B'rith, and the Unitarian Fellowship.

Gym classes

Registration of boys and girls for gymnastics and games classes conducted by students in physical education will take place Tuesday, Oct. 8, from 3:30 p.m. to 5 p.m. in the main gymnasium of White Building.

Della Durant, associate professor of physical education, will supervise the teaching of the classes, which will be held each Saturday, 9:45-10:45 a.m., in the White Building gym, Oct. 12-Nov. 30.

Classes will be conducted for boys and girls currently enrolled in the first or second grade and also for those enrolled in the fifth or sixth grade.

The classes are free of charge and are open to children of faculty and staff members as well as State College residents.

An adult must accompany the child to registration.

Church renewal

A series of seminar meetings for faculty members will be held each Friday from 12 noon to 1:30 p.m. during the Fall Term beginning Oct. 4 on the theme, "The Renewal of the Church."

Instructors will be The Rev. Egbert Donovan, O.S.B. and The Rev. Richard E. Wentz. Those participating will use as resource materials the books, "The Spirit of Catholicism" by Karl Adam, and "The Meaning of Protestantism" by James H. Nichols.

Sessions will be held in the small lounge of the Eisenhower Chapel.

Tea Sunday

The annual Liberal Arts Tea will be held Sunday, Oct. 6, from 3 to 5 p.m. in the lounge of the Hetzel Union Building.

Mowrer lecture

Dr. O. Hobart Mowrer, professor of psychology at the University of Illinois, will open the Fall Term Graduate Lecture Series Thursday, Oct. 10, at 8 p.m. in Room 121 Sparks.



Dr. Mowrer

He will speak on "Science, Religion, and Student Values."

Author of "The Crisis in Psychiatry and Religion" (1961) and six other books on psychology, Dr. Mowrer is among those who oppose the Freudian concepts of psychotherapy. He believes psychology's cause-effect relationship implied by the stimulus-response is not adequate even for Pavlov's dog, and for man there is something more between the S and the R.

Dr. Mowrer also believes that the so-called neurotic is a bona fide sinner whose difficulties arise not from inhibitions but from anti-social actions kept carefully concealed. He contends that emotional illnesses could be cured more quickly or prevented more effectively by teaching people to take the consequences of what they do instead of letting them blame their troubles on something done to them.

A graduate of the University of Missouri, with a doctor of philosophy degree from Johns Hopkins, Dr. Mowrer was with the Institute of Human Relations at Yale University for six years before going to Harvard in 1940. He headed the Psychoeducational Clinic at Harvard until 1949 when he joined the Illinois faculty. He has lectured widely before psychological and lay groups. He has held many high offices in professional groups, including the presidency of the American Psychological Association.

Hort show

The highly popular Horticulture Show, held annually on Homecoming Weekend, will be held Saturday and Sunday from 9 a.m. to 7 p.m. in the Pavilion (Ice Rink).

Designed on the theme, "Art, Science, and Society," the Show will feature a series of displays demonstrating the importance of horticulture to society and the techniques of its art. Plant breeding, landscape architecture, and food processing will be included.

SENATE MINUTES



ANNUAL REPORTS OF COMMITTEES ON FACULTY AFFAIRS

(Continued from last week)

APPENDIX A

*Report to the Senate Committee on
Faculty Affairs on the Emeritus Rank*

1. Your subcommittee recommends that the following be granted emeritus rank automatically upon retirement unless a specific action is taken to withhold this recognition: The President; Deans; Directors (of academic units); Professors; The Chaplain; The Librarian.

We recommend also that *Associate Professors*, in cases where the quality and length of service so warrant, be promoted to full professorship during the year in which they plan to retire; and that the Deans be empowered to effect such promotions.

Since *Vice-Presidents* and *Associate Deans* cannot feasibly be promoted to the next higher rank, we recommend that emeritus rank be granted to them also where the quality and length of service so warrant.

2. The above would, in effect, establish as policy what has been close to the actual practice of the University for some time. Personnel Services-Employee Relations has furnished the following statistics:

During the past ten years (1952-1962), 129 full professors retired, and all but one were granted emeritus rank. The exception was in the case of a professor who retained his academic rank though he had for some time worked in a non-academic position.

Six associate professors were promoted to full professor within two years of their retirement; two more within three years. In addition, 37 associate professors retired during the 10-year period, 3 of which were granted emeritus rank without being promoted.

3. The National Office of the American Association of University Professors indicates that, in response to a questionnaire of May 1961, "Most of the institutions queried have loose and informal policies concerning the use of the designation." (Only a small sampling was made.) Twelve of the fifteen institutions queried claimed to have a "formal policy." Of these, nine indicated that the title was awarded to all faculty automatically on retirement, though some of these specified a length of service. The other three limited the title to professors and associate professors. "Most of the institutions questioned apparently limit the rank to teaching faculty members." Only three institutions stated that they used some screening procedure to determine the award of the title. Nine institutions require action by the Board of Trustees, but this is considered a "formality."

4. To make the emeritus award more mean-

ingful, your committee recommends that the following privileges should be available to retirees of emeritus rank.

(It is not our intention to imply that these privileges should not, on occasion, be granted to other retirees also, but general retirement problems are not within the scope of this report.)

1. Continued utilization of the University on a per diem basis. Many retirees have much to offer, would be more than willing to accept an occasional assignment, and need the additional income.
2. Office space whenever possible.
3. Secretarial help for research and scholarly projects.
4. Use of the library as a faculty member.
5. Attendance at faculty meetings (non-voting), receptions, academic processions.
6. Listing in the Faculty Directory.
7. Faculty tuition rates for children enrolled in the University.
8. Receipt of *Faculty Bulletin*.
9. Parking privileges on campus.
10. Opportunity to attend banquets, lectures, concerts, and to use sports and recreational facilities, etc., on the same basis as active faculty.

Warren S. Smith, chairman
APPENDIX B

*Progress Report of the Subcommittee on
Faculty Club*

- (1) The present Committee, with some membership changes over the years, was appointed April 1, 1960.

- (2) Over the years this Committee has proceeded on the basis of positive interest in a faculty club as expressed in the AAUP survey of March, 1959.

- (3) After surveying possible facilities for the location of a faculty club and after discussion with University officials, the Committee, in May 1960, recommended as follows:

- a. immediate establishment
- b. that a faculty club be launched in a modest way
- c. that a faculty club seek more spacious quarters as growth and interest was indicated.

Therefore, renovation of existing quarters of the University was recommended in the following order:

1. Servants' quarters on the third floor of the Nittany Lion Inn
2. Nursery in the Home Economics Building
3. Second floor suite of three rooms in Nittany Lion Inn
4. Third floor suite of three rooms in Nittany Lion Inn
5. A space in the bridge area between old and new Home Economics Building
6. Suite in Irvin Hall used by Housing Department
7. Waring Hall Lounge

- (4) In June 1961, President Walker indicated to Dr. Leo Sommer (then Chairman of the Senate Committee on Faculty Affairs) that he was in favor of an adequate faculty club for providing exceptional facilities not now available to the faculty, as opposed to a stop-gap facility which, he felt, would almost certainly fail.

- (5) During the summer of 1961, inquiries

were mailed to approximately 100 universities requesting information as to the facilities and methods of operation of faculty clubs on other campuses.

- (6) In the summer of 1961, after meeting with President Walker, this Committee talked further with Mr. Wiegand. At his request, the Committee submitted specifications for space for a faculty club in the planned expansion of the Hetzel Union Building. This request was seriously considered by the Resources Committee of the University, but was ultimately denied with the suggestion that a faculty club might better be established in a separate building.

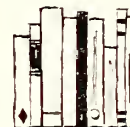
- (7) In May 1962, after additional investigation, the Subcommittee concluded that:

1. the cost of a faculty club facility would be such that the culmination of such a plan seemed impracticable in the early future; and
2. such a facility would be a costly duplication of the facilities already available to the faculty and staff through the Nittany Lion Inn and other campus facilities.

Hence, the Committee recommended that plans for the fuller utilization of the facilities and service of these University locations be developed. It was further proposed that in order to bring about fuller use of existing facilities, the President's Office should be requested to design a brochure fully describing the Campus activities and facilities (recreational and social) that are presently available to the staff.

Richard M. Colwell, Chairman

BOOKS



A Spanish translation of the book, "Business Simulation," by Dr. Paul S. Greenlaw, associate professor of management, with Lowell Herron and Richard Rawdon, of Clarkson College, has been published by the Mexico City firm of Herrero Hermanos Sucesores. The book was originally published by Prentice-Hall in its International Series in Management. An Asian edition has been published by Marzen of Tokyo.

Ernest R. Weidhaas, associate professor of engineering graphics, has prepared an alternate edition to his text, "Creative Problems in Engineering Graphics," published by McGraw-Hill this month. The new text exposes the student to creative design earlier in the program of engineering graphics and problems are designed to develop creative decision-making in design.

Dr. Thomas D. Larson, assistant professor of civil engineering, is author of the book, "Portland Cement and Asphalt Concretes" which has been published by McGraw-Hill. The nature and performance of cementitious materials are covered.

CALENDAR



Friday, Oct. 4

Artists Series, 8:30 p.m., Schwab. Kinio Eto, kotoist, and Suzushi Hanayagi, dancer.

UCA Faculty Seminar, "The Renewal of the Church," 12 noon to 1:30 p.m., The Chapel small lounge.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. David D. Soule, National Carbon Co., on "Effect of Boron on the Electronic Properties of Single Crystal Graphite."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Saturday, Oct. 5

Football, vs. Rice, 1:30 p.m., Beaver Stadium.

Hort Show, 9 a.m. to 7 p.m., Pavilion (Ice Rink).

UCA Forum for faculty and others on theme, "The Peace Corps: Evaluation and Prospect," Dr. Samuel D. Proctor, North Carolina A. and T. College.

Sunday, Oct. 6

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Samuel D. Proctor, North Carolina A. and T. College, on "The Wrong Time to be Silent."

Hort Show, 9 a.m. to 7 p.m., Pavilion (Ice Rink).

Liberal Arts Tea, 3-5 p.m., HUB lounge.

Reception for art exhibit opening in Mineral Industries Gallery, 7-11 p.m.

Monday, Oct. 7

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Chauncey Lang, on "Experience in Community Development in Mexico."

Engineering Mechanics Seminar, 4 p.m., 210 Hammond. Dr. Walter Jaumzemis, on "Fluids with Oriented Particles."

Tuesday, Oct. 8

Philosophy Colloquium, 4 p.m., Room 214 Boucke. Dr. John M. Anderson, head of the department of philosophy, on "On Aesthetic Form."

Thursday, Oct. 10

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Dr. O. Hobart Mowrer, University of Illinois psychologist, on "Science, Religion, and Student Values."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Prof. Armin Henglein, Hahn-Meitner Institute, Berlin, Germany, on "Excited Ions, Persistent Complexes, and a Stripping Model in Ion Molecule Reactions."

Friday, Oct. 11

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Paul Goldberg, General Telephone and Electronics Co., on "Stabilization of Free Radicals and Reactive Molecules in Cavities of the Water Clathrate Lattice."

UCA Faculty Seminar, on "The Renewal of the Church," 12 noon, The Chapel.

American Society of Agricultural Engineers meeting, Pennsylvania Section, HUB Auditorium, 1-4:30 p.m.

Uganda program

The Institute of Public Administration has arranged a program for 18 local government administrators from the independent African nation, Uganda, which was a British protectorate until last year.

Course work has been specially arranged for the visitors consisting of studies in "Public Administration" and in "American Institutions." Following completion of the courses, the administrators will do some traveling and spend a month as internees working with local government officials throughout Pennsylvania.

Coordinator of the project is E. Conrad Raabe, graduate student in political science. Dr. John H. Ferguson, director of the Institute, arranged the program.

Oliver honored

Dr. Robert T. Oliver, head of the department of speech, will be honored by the Pennsylvania Speech Association at its annual meeting Oct. 18 in Pittsburgh by being named "Speaker of the Year."

Dr. Oliver served as president of the Association in 1941 and 1953.

Philosophy talk

Dr. John M. Anderson, head of the department of philosophy, will speak "On Aesthetic Form" before a Philosophy Colloquium, Tuesday, Oct. 8, at 4 p.m. in Room 214 Boucke.

All faculty and students are invited. A discussion period will follow the talk.

Football lunches

The department of housing and food services is once again making available the facilities at East Halls so the public may purchase lunch prior to the football game between Penn State and Rice.

At a cost of \$1.25, the regular student meals may be purchased.

LIBRARY TALKS

Graduate students interested in learning more about Pattee Library should sign at the Reference Desk or Information Desk for a talk on library materials and a tour of the building, as arranged by the Reference Department staff. The talks and tour will be given three times: Tuesday, Oct. 8, from 3:50 to 5:30 p.m.; Wednesday, Oct. 9, from 7:15 to 9 p.m.; and Monday, Oct. 14, from 3:50 to 5:30 p.m.

Information about library instruction offered to classes is contained in the booklet, "Library Handbook for Faculty and Graduate Students."

PUBLIC SCHOOLS

At the request of the Council of Academic Deans, the College of Education has arranged to serve as a clearing house to the other Colleges in their associations with public schools. It is understood that faculty members in all colleges are expected to make use of this service in order to make arrangements for observation, research, or practice teaching in public schools in Pennsylvania.

A file of information on the school systems of Pennsylvania is being set up to show where Penn State has, or has had, faculty members engaged in research, observation, or practice teaching. The file will also indicate school systems which may be particularly eager to work with Penn State, as well as those situations where caution needs to be observed in our relations.

Faculty members who desire to observe public school operations, or engage in research involving the cooperation of public schools may receive a considerable amount of assistance by having a search made of the information on file. The clearing house system should also prevent overloading one school system whilst others equally eager to cooperate and equally desirable for our purposes are ignored.

Faculty members who are currently working with schools or who have recently completed projects with schools are requested to make contact with Dr. Gordon Godbey, Assistant Dean for Continuing Education, College of Education, in order to contribute information to the file. Persons with related information on school systems which would be valuable in guiding other faculty in their relations with the schools are also asked to contribute such information for the record.

Forms for initiating clearing action with the College of Education have been sent to the deans of all other colleges, and may there be obtained by faculty members. Completed forms should be sent to the Dean, College of Education, 275 Chambers Building.

SERVICES OF WORSHIP

(All services in Helen Eakin Eisenhower Chapel except as noted.)

Roman Catholic—Monday through Saturday, 7 a.m. and 11:10 a.m.; Monday through Friday, 5:05 p.m. (except first Friday, 5:15 p.m.); Sunday, 7 a.m.; Sunday (in Hetzel Union Building), 9:15, 10:15, and 11:15 a.m.

Episcopal—Holy Communion, Monday and Thursday, 4 p.m.; Tuesday and Friday, 8 a.m.; Wednesday, 9 p.m.; Saturday, 9:30 a.m.

Methodist—Service of Worship, Sunday, 9 a.m.; Holy Communion, First Sunday of each month, 9 a.m.

Lutheran—Service, Sunday, 10 a.m.; Holy Communion, Sunday, 8 a.m.; Vespers, Wednesday, 6:30 p.m.

Reformed—Vespers in Reformed tradition, Thursday, 6:30 p.m.

PERSONNEL —

(Continued from page one)

with the legal rules of evidence and the psychology of evidence.

Wilburn W. Newcomb, assistant professor of foreign languages at Tennessee Polytechnic Institute, has been appointed assistant professor of German. He received his bachelor of music degree from the Cincinnati Conservatory of Music and master of arts in musicology from Indiana University. He is currently a candidate for the doctor of philosophy degree in German musicology from the University of Goettingen, Germany, where he studied from 1960 to 1962 as a Fulbright Scholar.

Dr. Stella R. Goldberg, for the past ten years head of the department of family life at Linton High School in Schenectady, N. Y., has been appointed assistant professor of child development and family relationships. She was graduated from New York University in 1944 and received the master of arts degree in nutrition in public health from N.Y.U. in 1946 and doctor of education from Columbia University in 1957.

Frank Z. Burggraf, Jr., assistant professor of landscape architecture at the University of Georgia, has been named assistant professor of landscape architecture. A Syracuse University graduate, he received the master's degree from the University of Pennsylvania. He has summer experience with the National Park Service and with a private New York landscape architecture firm. He has been at Georgia since 1958.

David H. Oden, native of Stuttgart, Germany, and former teacher in Philadelphia private schools, has been appointed instructor of history at the Hazleton Campus. He is a graduate of Queen's College, N. Y., and received the master of arts degree in international relations from the University of Pennsylvania this year. He is now working on his doctorate at Penn.

Robert F. Maurer, graduate of Franklin and Marshall College with a master of arts

degree in mathematics from Penn State, has joined the faculty of the Mont Alto Campus as instructor in mathematics.

Dr. Jaan Kinsalaas, a post-doctoral research fellow at Northwestern University's Materials Research Center, has joined the staff as assistant professor of engineering mechanics. His bachelor of engineering degree in civil engineering was conferred by the University of Adelaide, Australia, and master of science and doctor of philosophy by Northwestern University. He was previously a development engineer with Chrysler Corp. and with Chrysler Australia, Ltd.

Dr. Albert L. Ingram has been named psychiatrist in the Ritenour Health Center. He has been engaged in private practice for the past 15 years and served as consultant in Delaware. He is a graduate of Davidson College and his doctor of medicine degree was conferred by the University of Maryland. He has done post-graduate study in psychiatry at Jefferson Medical College.

Dr. Gerd M. Rosenblatt, research chemist at the University of California's Lawrence Radiation Laboratory, has been appointed assistant professor of chemistry. He received the bachelor's degree from Swarthmore College and doctor's in physical chemistry from Princeton University. His research has been in the area of high-temperature chemistry, solid-vapor equilibria, and thermodynamics.

James R. Andrews, who has been active in Mateer Playhouse and during the past season at Pavilion Theatre as a member of the acting company, has been appointed instructor in speech. He was graduated from New Jersey State College in 1958 and received a master's degree in speech from Penn State in 1960. He has also taken graduate work at Stanford University.

Dorothy L. Moody, graduate of Slippery Rock State College with a master's degree from West Virginia, has been named instructor in physical education. She has taught in public schools at Knox, Butler, and Albion and has been graduate assistant at Penn State for the past three years.

FELLOWSHIPS

FULBRIGHT

Dr. John C. Major, professor of American literature who has replaced Robert E. Galbraith as advisor of the Fulbright scholarship program for study abroad, advises that students interested in the grants should get in touch with him in Room 244, Sparks.

A completed form of application must be submitted by Oct. 25.

Fulbright grantees are selected by competition and must meet high academic and professional standards in addition to proposing serious projects for study abroad. They must also demonstrate an ability to adapt to a different cultural environment and to communicate to their fellow citizens the results of their foreign experience.

NSF SUMMER

The National Science Foundation will again offer Summer Fellowships (as mentioned in last week's Faculty Bulletin), to students who have been teaching assistants for at least one academic year (three terms), teaching or assisting in teaching duties at least eight hours per week. An instructor who is a graduate student might also be eligible.

Under NSF rules, a person may not apply for more than one NSF fellowship for the same period; however, if he has been or will have been by June a teaching assistant for three terms, he may apply for a Summer Fellowship for Former Teaching Assistants for the Summer of 1964 and also apply for one of the academic year fellowships which would not start before Sept. 1, 1964.

This year the Graduate School Office may recommend as many Summer Fellowship applicants as the local committee considers qualified.

Application materials for the Summer Fellowships are available at the Graduate School Office, 101 Willard. Applications should not be delayed.

faculty BULLETIN

Vol. 51, No. 12 Oct. 4, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main.

UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

HELP plan

The University has joined with other Pennsylvania colleges and universities through the Pennsylvania Committee for Higher Education Loan Plan (HELP) to urge passage of Amendment 1-A to the State Constitution at November elections.

President Walker pointed out, in announcing the University's decision to aid the HELP program, that even though loans totalling nearly half a million dollars are made by Penn State yearly, more than a thousand applications for loans, adding up to more than a million dollars, are turned down yearly for lack of funds.

"Rising costs of education and the declining opportunities for students to earn enough to put themselves through college are two important reasons more students are asking for loans," the President said. "Our experience with loans to students has been good and we would like to encourage more young men and women to borrow to further their education but the money is simply not available."

Through Amendment 1-A, the HELP Committee hopes that more banks and other lending agencies will provide loan money at low rates and more liberal repayment terms by being guaranteed the loans through a special State fund.

The HELP Committee believes that the public needs to be better informed on the Amendment to assure its passage.

Medical committee named

Samuel F. Hinkle, president and chairman of the Hershey Chocolate Corp. and nine of the country's leading medical and biological scientists will serve on the planning committee which will establish the broad outlines for the development of the new Milton S. Hershey Medical Center.

Also to serve on the Committee are:

Dr. George Packer Berry, dean of the Faculty of Medicine and of the Harvard Medical School, and president of the Harvard Medical Center.

Dr. James C. Campbell, professor of medicine, University of Illinois Medical Center and chairman of the department of medicine, Presbyterian Hospital, Chicago.

Dr. Edwin L. Crosby, executive vice president and director, American Hospital Association, Chicago.

Dr. Philip Handler, James B. Duke professor of biochemistry and chairman, department of biochemistry, Duke University Medical Center.

Dr. Richard A. Kern, professor emeritus of medicine, Temple University School of Medicine and Hospital.

Dr. Edward D. Raffensperger, clinical assistant professor of medicine and assistant chief of the gastrointestinal department, University of Pennsylvania School of Medicine.

Dr. James A. Shannon, director of the National Institutes of Health.

Dr. Joseph T. Wearn, professor emeritus of medicine and former dean, School of Medicine, Western Reserve University.

Dr. W. Barry Wood, Jr., professor of microbiology and director of the departments of microbiology, The Johns Hopkins School of Medicine.

President Walker said that a group of consultants, including members of the present faculty of the University, would work out detailed plans for the various departments.

Football traffic

Because of the unusually high interest in the football game between Penn State and Army tomorrow, traffic and parking problems will be more severe than usual.

William C. Pelton, director of security, reminds members of the faculty that:

1. One-way traffic is maintained on Park Ave. from 10:30 a.m. to game time in the direction of the Stadium and away from the Stadium after the game until congestion is cleared. Faculty members on the campus Saturday morning are advised not to try to cross Park Ave. in leaving the campus but to use other exits. They are especially cautioned not to attempt to reach N. Allen St. from Parking Area 70, since they would have to do so against traffic.

2. For tomorrow only, Parking Area 50, the area just east of the Hospital, will be closed until 11 a.m. to accommodate the 35 buses bringing the U. S. Military Academy cadets to the game.

3. Those intending to go to the game should plan an early start since a sell-out crowd will attend and traffic will move more slowly than it has for the first two games.

Euwema to resign

Dr. Ben Euwema, dean of the College of the Liberal Arts, announced last week that he will resign his position as dean June 30 or earlier if a successor is named.

He plans to continue as professor of English.

President Walker has indicated that a committee of five, three chosen by the faculty of the College of the Liberal Arts from their own ranks and two selected by himself, will make recommendations for a successor.

Dean Euwema has been at Penn State since 1946, coming from Michigan State where he was head of the department of English and director of languages and literature. He began his teaching career at the University of Chicago Evening School in 1928, then taught and was head of the department of English at Westminster College until 1936.

Meeting

The Association of Governing Boards, organization of regents, trustees, and other board members of colleges and universities in the nation, will meet Oct. 16-18 at the University.

President Walker, Dean E. B. McCoy, College of Health and Physical Education, and B. C. Jones, trustee, will take an active part in the meeting. Also to speak is Raymond P. Schafer, lieutenant governor of Pennsylvania.

The Association represents the boards of 257 publicly-supported colleges and universities and more than 100 governing board members and their guests are expected for the meeting. Theme of the meeting is the future of higher education for the next 25 years.

Maple room

Food service in the Home Economics Maple Room and Cafeteria resumed this week. Luncheon service is provided from 11:45 a.m. to 12:45 p.m. Monday through Friday and dinner from 5:15 to 6:30 p.m.

Students plan, prepare, and serve the meals as part of their experience in foods and nutrition classes.

SENATE MINUTES



MEETING OF OCTOBER 1, 1963

The University Senate met at 3:55 p.m. on Tuesday, October 1, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the August 6, 1963 meeting were approved as printed in the Faculty Bulletin for August 16, 1963. Two hundred five senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (A. E. Knott), C. R. Carpenter (L. P. Greenhill), M. R. Fenske (Dorothy Quiggle), G. R. Hudson (A. M. Wellington), J. W. Hunt (R. G. Ehman), K. W. Hylbert (C. G. Corle), F. L. Keller (T. S. Goas), A. J. G. Maw (R. R. Murphy), N. A. Norton (W. K. Murphey), H. J. Poorbaugh (W. C. Cochrane), H. J. Read (W. R. Bitler), E. R. Weidhass (F. E. Robinson), W. O. Williamson (J. H. Hoke), and G. F. Wislicenus (E. J. Rodgers).

New Senators

A letter was read from Ossian MacKenzie that A. J. Hirsch had been elected to fill the unexpired term of R. D. Pashek 1963-1964.

A letter was read from Grace M. Henderson that Ruth Gates would replace Mary Fuqua for the 1963-64 term, and that Barbara Densmore would replace James Montgomery for the 1963-1965 term.

A letter was read from F. L. Carnahan that H. B. Zook would replace Thomas Wartik while he is on leave through February 29, 1964.

President Walker called on the deans of the several Colleges and the Graduate School to introduce the new senators from the Colleges and the Graduate School.

Reports of Standing Committees

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY presented the report which had been distributed at the meeting regarding CREDITS REQUIRED FOR GRADUATION. He gave a resume of the background leading to the recommendation that the policy be changed to read:

The range of credits required for graduation from twelve-term baccalaureate programs is 120 to 144 credits. All programs must make provisions for the listing of basic ROTC.

Credits earned in ROTC courses may be applied toward meeting graduation requirements at the option of the College.

Mr. Schanz moved that the report of the Committee be received by the Senate and asked that comments and objections be referred to the Committee. The motion was seconded and passed. President Walker stated that this is a major Senate decision that the Educational Policy Committee has presented and that all of the faculty ought to discuss it. The report which will lie

on the table until the next regular meeting of the Senate is as follows:

Credits Required for Graduation

On May 4, 1961, the Senate endorsed the following policy: "The total normal range of credits for 12-term baccalaureate programs is 124 to 150."

It is now recommended that the policy be changed to read:

"The range of credits required for graduation from twelve-term baccalaureate programs is 120 to 144 credits. All programs must make provisions for the listing of basic ROTC. Credits earned in ROTC courses may be applied toward meeting graduation requirements at the option of the College."

The reduction on the upper limit for 12 term baccalaureate programs is to bring Senate policy into agreement with the practices recommended by the Senate Committee on Courses of Study, the Administrative Policy on ROTC issued on July 15, 1963, by the President's office, and the manner in which basic ROTC will be listed in the next University Bulletin. The Courses of Study Committee in its next issue of "Standard Practices" will specify that departments are not to add to their academic requirements through the use of credits previously used for basic ROTC nor rearrange programs in any manner which would preclude a student from exercising his option to take basic ROTC.

The previous lower limit applied only to women and did not include credits for ROTC. The new minimum credit standard will therefore offer a slightly greater degree of freedom to those departments wishing to reduce the number of courses scheduled by the student in any term.

Finally the policy clarifies the use of ROTC credits, both basic and advanced, by the student in meeting graduation requirements.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." This report was in three parts. Mr. Shelley moved approval of Items I A 1 and I B 1, both of which have to do with the Secondary Education program and options. The motion was seconded and passed.

Mr. Shelley moved approval of Items I A 2 and I B 2, concerning new courses and a curriculum in mathematics. He commented that the Committee was recommending this revised curriculum with the proviso that it be reviewed by the Committee in three years and that in the interim an annual report be submitted on the effectiveness of the proposed curriculum. The motion was seconded. R. W. Brewster, as Chairman of the Liberal Arts Planning Committee, moved an amendment to the proposal.

to postpone consideration of the Bachelor of Arts degree in mathematics until the next regular meeting of the Senate, but without prejudice to voting today on the Bachelor of Science degree in mathematics.

The motion was seconded. There was

general discussion by Messrs. Bartoo, Shelley, Euwema, Bernreuter, Schanz, Marin, Brewster, Neusbaum, Gorlow, Skell, and Schilling. By a showing of hands the motion to amend the proposal was lost. By a voice vote the original motion was passed.

Mr. Shelley moved approval of Item II, which covered editorial corrections to the next annual issue of the General Catalog. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Following this action President Walker requested that the Senate Committee on Educational Policy consider a policy to authorize a College to award degrees in a subject matter area which is assigned to a different College.

Unfinished Business

J. D. Ridge, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the proposed amendment to Article II, Section 1 (o), 3 of the By-Laws, which had lain on the table since the last meeting. He moved that the change be made as follows:

Amend by making the deletions between the brackets which are added here for the sake of the amendment:

A. Voting members, the chairman [to be selected from among the voting membership of the Senate Committee on Student Affairs], the Dean of the College . . . etc. the same.

The motion was seconded. L. H. Lattman moved that the proposal be amended to read as follows:

A. Voting Members, the chairman to be selected from the regular teaching faculty, the Dean of the College . . .

The motion was seconded and passed. The motion, as amended, was passed. Article II, Section 1 (o), 3 now reads:

3. Discipline.

A. Voting Members, the chairman to be selected from the regular teaching faculty; the Dean of the College or Colleges (or their representatives) in which the student or students whose case is under consideration are enrolled; the President of AIWS or USG, or both, depending upon the sex of the student or students whose case is under consideration; a faculty or staff specialist on behavior, as designated by the Committee on Student Affairs; and the chairman of the court of original jurisdiction, provided the case has been heard previously in a student court.

Comments and Recommendations for the Good of the University

E. B. VanOrmer announced the deadline dates for applying for National Science Fellowship Programs. 1. NSF Cooperative Graduate Fellowship for 1964-65—November 1, 1963; 2. NSF Graduate Fellowships for 1964-65—January 3, 1964; 3. NSF Summer Fellowships for Former Teaching Assistants for the Summer of 1964—December 6, 1963.

Mr. VanOrmer also stated that Penn State had been one of 20 colleges asked to select a student for the Churchill Scholarship for graduate study in science or engineering at

(Continued on page four)

Penn State in scholarship plan

Penn State has been selected as one of 20 universities and colleges in the country to nominate candidates for Churchill Scholarships for 1964-65 for graduate study in science or engineering at Churchill College, Cambridge University, England.

Present senior men and graduate students may apply for the scholarships, of which ten will be given by the U. S. Churchill Foundation this year. Each of the twenty universities may nominate two candidates.

Dr. E. B. Van Ormer, assistant dean of the Graduate School, 101 Willard Building, urges departments to recommend to him not more than two candidates of especially high calibre, either seniors or graduate students, but only those in science or engineering. A local committee will select two candidates to present to the committee of the National Academy of Sciences-National Research Council which will in turn make its recommendations to the Foundation trustees and the officers of Churchill College.

"These candidates should be of the same high quality as would be expected to win Rhodes Scholarships," says Dr. Van Ormer.

The scholarships will provide \$3,000 for nine months of study for a single man, \$4,000 for a married man and \$500 for each dependent child. Applicants must be male, U. S. citizens, with five years of residence in the United States by Sept. 1, 1964, be at least 19 and not older than 26, and hold a bachelor's degree from a recognized American college. Graduate Record Examination scores must be submitted or the examination taken Nov. 16, 1963.

Trustees chosen

Gov. William W. Scranton has named four new members of the Board of Trustees to fill vacancies and replace other appointees.

W. Stewart Taylor, Harrisburg insurance man, succeeds Franklin W. Ruth, Jr., Lykens.

Mrs. Lucetta P. Kennedy, Paoli, replaces Richardson Dilworth.

Willard F. Rockwell, Jr., Pittsburgh, succeeding Charles T. Douds, Camp Hill, whose term expired.

Harry Dickstein, Scranton, succeeding Edward J. Lynett, Scranton, who resigned.

AAUP meeting

An open meeting of the American Association of University Professors, local chapter, will be held Tuesday, Oct. 22, at 8 p.m. in Room 124 Sparks. Discussions will be conducted on changes in retirement, tenure, and problems posed by the new medical school.

UCA drive

The annual solicitation of faculty and staff members by the University Christian Association will begin Monday, Oct. 14. Representatives of the several areas of the University will contact potential contributors during a two-week period.

Supported entirely by voluntary contributions from individuals and church agencies, the U.C.A. makes available programs for faculty, staff, and students in nine different areas. One program, for example, is the Faculty Seminar series, "Renewal of the Church," which meets Fridays to explore the problem of the Church in contemporary society.

Recreation

Programs of recreation for the faculty and staff and families, conducted by the College of Health and Physical Education, have been established for the year as follows:

Men's Recreation—classes conducted each Tuesday and Thursday, 1 to 3 p.m., Recreation Building. Any male member of the faculty may attend variety of activities, badminton games emphasized. New participants should see S. P. Fogg, UN 5-7202, Room 234A Rec Hall, before beginning activities.

Swimming—Mixed swimming at Glennland Pool, 8:15 to 9:30 p.m., each Monday. Family swim for faculty, staff, and student families, 7 to 8:15 p.m., each Monday. No children under five years of age; parents must supervise activity of their own children. Parents may not bring children from other families. Children must leave pool at 8:15 p.m.

Women's Activities—for women faculty members and wives of faculty members and graduate assistants, including Swimming (3-4 p.m.), Bowling (2-3 p.m.) and Badminton (2:30-3:30 p.m.), all on Tuesday and Thursday. Activities begin Oct. 22 and for the Fall Term continue until the end of the Term with the exception of Thanksgiving Day. For swimming, instruction at all levels is provided. Participants must bring cap. For bowling, a \$2 ticket is required for the 10 sessions or 25 cents per session. Instruction is provided at all levels. For badminton, equipment is provided; wear sneakers. Participants in all programs may use parking area 46, in women's residence hall area.

CALENDAR



Friday, Oct. 11

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Paul Goldberg, General Telephone and Electronics Co., on "Stabilization of Free Radicals and Reactive Molecules in Cavities of the Water Clathrate Lattice."

UCA Faculty Seminar, on "The Renewal of the Church," 12 noon, The Chapel.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom. Vyts Baliajus, guest folk dance teacher.

Saturday, Oct. 12

Football, vs. Army, 1:30 p.m., Beaver Stadium.

Sunday, Oct. 13

Chapel Services, 10:55 a.m., Schwab Auditorium. The Rev. Theodore Speers, chaplain, U. S. Military Academy, on "Four to One."

Campus-Community International Tea, 2-5 p.m., Conference Center.

Monday, Oct. 14

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. David E. Davis, professor of zoology, on "Penn State's Waste Water Facility."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. L.W. Hu, on "Load Carrying Capacities of Anisotropic Structures."

Wednesday, Oct. 16

Concert by Alan Mandel, instructor in music, 8:30 p.m., Schwab.

Thursday, Oct. 17

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Prof. E. L. King, University of Colorado, on "Solvation of Chromium (III) Ion in Water-Methanol Solution."

Friday, Oct. 18

Artists Series, program, 8:30 p.m., Schwab. (Also Saturday, Oct. 19). Lotte Lenya, on "Brecht on Brecht."

Sigma Xi lecture, 8 p.m., Mineral Industries Auditorium. Dr. Robert N. Colwell, University of California, on "Aerial Photography—A Valuable Sensor for the Scientist."

PEACE CORPS

During the week Nov. 10-16, representatives of the Peace Corps will once again visit the campus to explain to students the opportunities available in the Corps. Many of these representatives are available and qualified to talk to regular University classes. Members of the faculty who wish to take advantage of this opportunity to have a Peace Corps speaker in their classes should contact Dr. Jerome Pasto, associate director of resident instruction in the College of Agriculture, who is coordinator for this special recruitment program on the campus. He may be reached at UN 5-6361, Room 211 Armsby.

THE ARTS



artists series

Tickets for the two performances by Lotte Lenya, in "Brecht on Brecht," Friday and Saturday, Oct. 18 and 19, will go on sale to the public at the HUB desk Wednesday, Oct. 16 and continue until Oct. 18.

Miss Lenya has been signed to play the title role in the New York production of "Mother Courage," which will open Jan. 15 at the off-Broadway Theatre de Lye. She has played in two plays by Brecht, including "Three Penny Opera" and in "Brecht on Brecht."

piano recital

Alan Mandel, brilliant young pianist who has joined the faculty as instructor in music, will present a recital Wednesday, Oct. 16, at 8:30 p.m. in Schwab Auditorium.

His program will include Mozart's "Sonata in D Major, K 576"; Anton Webern's "Variations for Piano, Opus 27"; Beethoven's "Sonata No. 30 in E Major, Opus 109"; and Schumann's "Grand Sonata in F-Sharp Minor, Opus 11."

art exhibit

A traveling exhibit of drawings by 30 American artists is on display in Chambers Building and will continue there until Oct. 25. The collection has been selected from a permanent collection of drawings and prints owned by the Ball State art gallery.

Among the artists represented are Irene Rice Pereira, Harold Altman, John Gregoropoulos, and Rudy Pozzatti.

The Ball State gallery not only includes contemporary art but also has a collection of old masterpieces, sculpture, ivories, glass, and Egyptian artifacts.

folk dance

Vyts Baliajus, nationally known, Lithuanian-born, folk dance teacher will serve as guest teacher for the Interlandia Folk Dance program today (Friday) at 7:30 p.m. in the HUB ball room. All who are interested in folk dancing are invited; admission is free.

pavilion theatre

Season tickets for the six Pavilion Theatre productions for the year will go on sale Oct. 14 and the sale will continue until Oct. 26. They may be obtained by calling the Pavilion box office, UN 5-6309 and are priced at \$8.40 for non-students and \$6.60 for students.

The six plays will be:

Oct. 22-26 — William Golding's "The Brass Butterfly," directed by Warren Smith.

Nov. 19-23—"U.S.A." by John Dos Passos and Paul Shyre, directed by Kelly Yeaton.

Feb. 4-8—William Gibson's "Dinny and the Witches," directed by Ellis Grove.

March 3-7—Shakespeare's "A Midsummer-Night's Dream," directed by Frank Neusbaum.

Apr. 28-May 2, May 8-9—To be announced, guest director.

May 26-30—Eugene O'Neill's "The Emperor Jones," with Robert Reifsnider as director.

All plays will run from Tuesday through Saturday. Individual tickets for Tuesday, Wednesday and Thursday shows are priced at \$1.50; for Friday and Saturday shows, tickets are \$1.75.

The box office will open on the Monday preceeding the week of each production and will be open daily from 10 a.m. to 6 p.m. except Sunday; also in the evenings until 10 p.m. on performance nights.

SENATE —

(Continued from page two)

Churchill College, Cambridge University, England for 1964-65—November 1, 1963.

October 31, 1963 is the deadline date for nominations for the Woodrow Wilson Fellowships.

Mr. Schanz stated that the Senate Committee on Educational Policy will be studying the GENERAL PURPOSES AND OBLIGATIONS OF THE PENNSYLVANIA STATE UNIVERSITY which had been distributed to the senators as Appendix "B" under date of July 2, 1963. He asked that any comments or recommendations be forwarded to the Committee as soon as possible. President Walker stated that if the Senate passes this policy statement he will take it to the Board of Trustees and will give it wide circulation.

President Walker commented on the \$50,000,000 gift to the University for the Medical Center and the degrees that will be earned at the Center. Plans are being made for the building, and for selecting a dean and faculty.

The next regular meeting will be on November 5, 1963; the agenda will be distributed on October 22, 1963.

The meeting adjourned at 5:09 p.m.

Robert G. Bernreuter
Secretary

faculty BULLETIN

Vol. 51, No. 13 Oct. 11, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Research scholar

John M. Harrison, associate professor of journalism, has been appointed Research Scholar of the College of the Liberal Arts. He will complete a biographical study of David Ross Locke, editor and satirist, who gained recognition for his "Petroleum Vesuvius Nasby" letters which he wrote during and after the Civil War.

A member of the faculty for two years, Harrison came from the University of Iowa where he was instructor in journalism and publisher of student publications and where he obtained his master's degree in 1961.

A graduate of the State University of Iowa, he was editor for a number of years of his family's weekly newspaper in Oakland, Iowa, and subsequently served on the staff of the Toledo Blade.

He is the author of articles in the Columbia Journalism Review, the Journalism Quarterly, Northwest Ohio Quarterly, and Nieman Reports.

Calvert commended

Dr. Seymour Calvert, appointed recently to the faculty as professor of mechanical engineering, was commended by the City Council of Cleveland, Ohio, for his work as chairman of the Mayor's Advisory Board on Air and Stream Pollution during 1960-61. In that position he was credited with making a significant contribution in the furtherance of the enactment of a modern air pollution code for the city.

He will be director of the Air Environment Center here.

Economics adviser to speak

Dr. Gardner Ackley, member of the President's Council of Economic Advisers, will speak on "U. S. Economic Growth: Is It Good Enough?" in the Fall Term Graduate School Lecture Series Monday, Oct. 21, at 8 p.m. in the Mineral Industries Auditorium, Room 26 Mineral Sciences Building.

On leave from his position as professor of economics at the University of Michigan, Dr. Ackley has served the Federal Government in many capacities. He was a consultant for the National Resources Planning Board in 1940-41; economist for the Office of Price Administration, 1941-43, 1944-46; economist for the Office of Strategic Services, 1943-44; and economic adviser and assistant director in the Office of Price Stabilization, 1951-52. He was a consultant to the U. S. Army in 1961.

He has been a member of the University of Michigan faculty since 1940 and professor since 1952. He is the author of "Macroeconomic Theory," published by Macmillan in 1961, and of articles and reviews in professional journals.

From 1959 to 1962, Dr. Ackley was director of the Social Science Research Council and this year is vice president of the American Economic Association.

Summer enrollment

The total enrollment for the Summer Term was 36,094, official figures provided by the Office of the Registrar indicate.

Included in the total were 9,393 taking credit work and 26,701 registered for non-credit work. Of the credit students enrolled, 7,347 were in residence, 2,046 being non-resident. Of those taking non-credit work, 18,324 were resident students, 8,377 non resident.

Undergraduates in the total enrollment numbered 5,800; graduates 2,740; specials 853; those in short courses, 7,005; those in formal Continuing Education work, 233; in Informal Continuing Education work, 13,473; and taking correspondence courses, 5,990.

Sigma Xi lecture

Dr. Robert N. Colwell, an outstanding authority on photo interpretation and photogrammetry, will speak on the subject, "Aerial Photography—A Valuable Sensor for the Scientist," Friday, Oct. 18, at 8 p.m. in the Mineral Industries Auditorium.

The lecture is sponsored by the Society of Sigma Xi, for which Dr. Colwell is a national lecturer this year. The lecture is open to all interested.

Trustee actions

At its most recent meeting, the executive committee of the Board of Trustees approved the following actions:

Reorganization of the program in forestry as a curriculum in the College of Agriculture, with majors in forest sciences and forest technology. In the forest sciences major there are options in forest science and wood science. In the forest technology major are options in forest management and wood technology.

Establishment of a new curriculum in speech pathology and audiology, with options for teachers of the deaf and for personnel to work in the field of clinical speech and hearing therapy. The program will be administered by the department of special education. Those preparing to be teachers of the deaf will spend the last two terms of the senior year at the Pennsylvania School for the Deaf at Mount Airy where they will study and serve as student teachers.

Three properties on North Atherton St. have been purchased. They are located to the southwest of the Ordnance Research Laboratory.

Curriculums in biochemistry, microbiology, botany, medical technology, and zoology in the College of Science were approved. All become effective immediately. The five curriculums are similar to programs that have been given as majors in agricultural and biological sciences in the College of Science.

UCA drive

The solicitation of funds by the University Christian Association will continue next week. Faculty and staff members who wish to contribute and have not been contacted may send their contributions to the UCA offices, The Chapel.

Knower visit

Dr. Franklin H. Knower, professor of speech at Ohio State University, will visit the Speech Department Oct. 24 and 25 meeting with graduate students and faculty. The visit is sponsored by the Graduate Forum, a professionally oriented graduate student organization in the department.

THE ARTS



artists series

Lotte Lenya will be starred in the Cheryl Crawford production of "Brecht on Brecht," the dramatic anthology of poems, songs, ballads, scenes and observations from the works of the late German playwright, Berthold Brecht, this evening (Friday) and tomorrow evening at 8:30 p.m. in Schwab Auditorium.

Currently on tour of colleges and universities in this country, the show had a successful run of 424 performances in New York before closing Jan. 3 of this year.

Miss Lenya was internationally known in pre-Hitler Germany and she has had an equally impressive career in American theatre and films. She is the widow of Kurt Weill, brilliant composer of "The Three Penny Opera" in which Miss Lenya starred in the original Berlin production.

Ticket sales, if any remain, continue today (Friday) at the HUB desk.

pavilion theatre

William Golding's comedy, "The Brass Butterfly," will open the Pavilion Theatre season Tuesday, Oct. 22, and run through Saturday, Oct. 26. Warren Smith directs the play.

The play concerns a young inventor, in the third century A.D., who seeks help from the Emperor so he may continue his efforts to aid humanity through his discoveries. The Emperor is struck by the beauty of the young man's sister.

Season tickets for the six Pavilion Theatre productions will continue on sale until Oct. 26 and may be obtained by calling the box office, UN 5-6309.

The box office will be open through Monday from 10 a.m. to 6 p.m. and from Tuesday through Saturday, Oct. 22-26, will be open from 10 a.m. to 10 p.m.

music series

The first publication of the new Penn State Music Series of the University Press will be issued Nov. 1.

Advanced copies of a cantata by Handel on St. Cecilia, "Look Down, Harmonious Saint," as edited by Denis Stevens, professor of music, have already been sent to reviewers. Stevens is also general editor of the Series, under which volumes edited by musicologists from Europe and

America have been invited to publish.

Although the Series will have as its principal aim the publication of practical rather than purely scholarly editions, Stevens hopes that monumental works will appear from time to time. He has already secured for the series exclusive American rights to the second edition of Charles van den Borren's "Polyphonia Sacra," a volume of some 300 pages presenting transcriptions of 15th century music, annotated by the editor.

alard quartet

The first recital by the Alard Quartet this term will be given Wednesday, Oct. 23, at 8:30 p.m. in Schwab Auditorium. The program will include Mendelssohn's Quartet in E-Flat Major, Op. 12; Shostakovich's Piano Quintet, with Sylvia Glickman, teacher at Haverford College, as pianist; and Beethoven's Quartet, Op. 95.

art exhibit

Prints by the Japanese artist, Jun-ichiro Sekino, will be exhibited in the HUB Gallery from Monday, Oct. 21, to Nov. 6.

A public reception will be held in the Gallery Monday from 7 to 9 p.m.

The artist is president of the Japanese Etching Society. His works have been exhibited in many countries and in this country in such galleries as the Chicago Art Institute, the Brooklyn Museum, the Philadelphia Museum, and The Freer Gallery of Arts in Washington, D. C.

Mr. Sekino will give a printmaking demonstration in the HUB Lounge Wednesday, Oct. 23, at 8 p.m.

GRADUATE EXAM

The Graduate Record Examination will be administered Saturday, Nov. 16, in 101 Chambers Building. Deadline for applications is Nov. 1 at the Educational Testing Service. Forms and instruction booklets may be obtained from Dr. G. H. Pritham, Room 104 Frear Laboratories.

Aptitude tests will be given Nov. 16 at 8:45 a.m. and Advanced Tests at 1:45 p.m. Only one Advanced Test may be taken in one day.

The next test will be given Jan. 18.

FLC SPEAKER

Dr. H. Kirk Dansereau, professor of sociology, will address the Faculty Luncheon Club Monday at 12:30 p.m. in HUB dining room "A." All members of the faculty are invited.

MEAT SALES

Sales at the Meats Laboratory sales room began Oct. 11 and will be conducted each Friday, from 1:30 to 5 p.m.

BOOKS



"Bargaining Behavior," by Lawrence E. Fouraker, former professor of economics now at Harvard, and the late Dr. Sidney Siegel, who was research professor of psychology at the time of his death in November, 1961, has been published by McGraw-Hill. The authors collaborated in the research for the book during 1960-61 under a grant from the National Science Foundation. They also authored the book, "Bargaining and Group Decision Making," published by McGraw-Hill in 1961.

The textbook, "Successful Conference and Discussion Techniques," by Harold P. Zelko, professor of speech, has been published by McGraw-Hill in a paperback edition and by the Antwerp, Holland, publisher Uitgeverij Het Spectrum N.V., in a Dutch language edition. The book was originally published by McGraw-Hill in a college text and in a trade edition and was adopted as a leading Business Book Club choice.

Dr. Max D. Richards, professor of management, is co-author of "Readings in Management," which has been recently published in a second edition by South-Western Publishing Co. It contains a cross-section of management literature.

AAUP meeting

Speakers for the open meeting of the local chapter of the American Association of University Professors Tuesday, Oct. 22, at 8 p.m. in Room 124 Sparks, will include Dr. Nelson McGeary, assistant to the President; Dr. Norman Pendered, associate professor of industrial education; and Dr. Arthur L. Williams, associate professor of insurance.

Dr. McGeary will discuss the problems of the new medical school. Dr. Pendered the changes in tenure provisions, and Dr. Williams on retirement.

Measurement

Francis G. Tatnall, consultant to the instruments division of the Budd Company, will address a joint meeting, to which the public is invited, of the American Society of Mechanical Engineers, American Society of Tool and Manufacturing Engineers, and the American Society for Metals today (Friday) at 7:30 p.m. in Room 101 Chambers.

He will speak on "The Philosophy of Measurement."

PERSONNEL MATTERS



DIED

Dr. Harrison M. Tietz, professor emeritus of anatomy and physiology, died Oct. 5, in Texas. A member of the faculty for 34 years, Dr. Tietz retired in 1960. Before his appointment to the faculty he was an entomologist with the U. S. Dept. of Agriculture.

APPOINTMENTS

DEPARTMENT HEADS

Dr. John H. Ferguson, professor of political science and public administration, has succeeded Dr. Elton Atwater as head of the department of political science. He will serve for a five-year period, and Dr. Atwater will continue as professor of political science.

Dr. George L. Brandon, as head of the department of vocational education, director of vocational teacher education, and professor of vocational education. He has been at Michigan State University since 1955, first as associate professor and later as administrative chairman of industrial education. He received both bachelor's and master's degrees from Miami University, Oxford, Ohio, and doctor of philosophy degree from Ohio State.

DISTINGUISHED

VISITING PROFESSORS

Dr. Carman G. Blough, as distinguished visiting professor of accounting and business for the Fall Term. One of the country's foremost experts in accounting and auditing theory, Dr. Blough is the Warner Ring Visiting Professor of Accounting at the University of Florida one semester each year. He is former director of research for the American Institute of Certified Public Accountants and since 1961 has served as research consultant for the Institute. He was adjunct professor of accounting at Columbia University from 1947 to 1961 and has served in a number of governmental positions as well as at Armour Institute of Technology and at the University of North Dakota.

Dr. Gertrude A. Esteros, as distinguished visiting professor of family housing and home art, for the Fall Term. She is chairman of the Division of Related Art, School of Home Economics, University of Minnesota, and served here on the art evaluation team last May. She has taught college courses in Missouri, Illinois and Minnesota and among her writings was the section on interior design in the Encyclopedia Britannica.

Dr. Harold B. Maynard, as distinguished visiting professor of industrial engineering for the Fall and Spring Terms. He is president of the Maynard Research Council in Pittsburgh and chairman of the H. B. Maynard and Co., Inc., management consulting firm, which has branch offices throughout

the country and in Europe and South America. He is author, co-author, or editor of eight books and has more than 200 papers on management. He has been given the Wallace Clark Medal, the Gilbreth Medal, and the Melville Medal, and was awarded an honorary doctor of laws degree by the University of Miami, in 1956. He has also received a number of other citations.

AGRICULTURE

Dr. John L. George, as associate professor of wildlife management. He has been research staff specialist for the Bureau of Sport Fisheries and Wildlife, Washington, D. C. since 1958. He was granted all three degrees in zoology and wildlife by the University of Michigan.

Gary W. King, as assistant professor of agricultural economics. He was a member of the Michigan State University faculty from 1961 until his appointment here. He was granted the bachelor of arts degree from Grove City College, master of arts in education from Michigan State, and is working on his doctorate in sociology at Michigan State.

ARTS AND ARCHITECTURE

Ena Drubnoff, as instructor in architecture. She has been a member of the staff of Pereira and Associates, architects and planners, Los Angeles, since 1961. She is a graduate of the University of Southern California and is a registered architect in California.

Dr. Frank F. Ehrenthal, as visiting lecturer in architecture. An internationally known architect with offices in San Francisco, he has practiced as an independent architect on the West Coast since 1948. He is a native of Budapest, Hungary, but studied at the University of Padua, Italy, the Institute of Technology at Brunn, Czechoslovakia, and received the Dottore in Architettura degree from the University of Florence, Italy.

Alan R. Mandel, as instructor in music. He was visiting lecturer here in the Spring Term and from 1961 to 1963 was a Fulbright Scholar in Europe where he concertized widely. He is a graduate of the Juilliard School of Music and has studied at the Akademie Mozarteum in Austria and received the Diploma with Honors in composition and piano from the Bolzano Conservatory, in Italy.

Enrique E. Montenegro, as assistant professor of art. He was assistant professor of art at the University of Texas from 1957 until the present. A native of Valparaiso, Chile, he received the bachelor of fine arts degree in art from the University of Florida and was enrolled for post-graduate work at the Art Student's League in New York.

BUSINESS ADMINISTRATION

Dr. John J. Willingham, as assistant professor of accounting. He comes from Ohio State University where he was instructor in accounting since 1960. He received the bachelor's degree from Eastern Illinois University, master of science in business administration from Penn State, and doctor of philosophy from Ohio State.

EDUCATION

Dr. Rena L. Foy, as assistant professor of education and educational services. She has been associate professor of education at the State University of New York at Plattsburgh since 1962 and was previously a lecturer in history and philosophy of education at the University of Texas. She was granted bachelor's and master's degrees by Hardin Simmons University and doctor's degree by the University of Texas.

Dr. Keith A. Hall, as assistant professor of educational psychology. He was instructor in education at Indiana State College at Terre Haute, Ind., which granted him the bachelor of science and master of arts degrees. He was conferred the doctor of education degree in audio-visual education and educational psychology by Indiana University.

Andrew J. Karpinski, as instructor in special education. He was a special education teacher in the Penns Valley Schools at Spring Mills. He received both bachelor of science and master of education degrees from Penn State and worked toward his doctorate here from 1961-63.

Alan C. Riedesel, as assistant professor of elementary education. He has been a member of the faculty at Kansas State University since 1962 and previously was a special research assistant at the State University of Iowa. He is a graduate of Cornell College, Iowa.

ENGINEERING

David R. Cistone, as research assistant in chemical engineering. He was a junior process engineer with Texaco, Inc. He received the bachelor's degree from Drexel Institute of Technology this year.

Dr. Auguste B. El-Kareh, as assistant professor of electrical engineering. He is a former member of the technical staff of RCA Laboratories in Princeton, N. J. He received the diploma of engineering and doctor of science degree in electrical engineering and physics from the University of Delft, The Netherlands.

Eugene J. Greskovich, as research assistant in chemical engineering. He was part-time research assistant here and received both bachelor of science and master of science degrees in chemical engineering at Penn State.

Dr. Robert L. Kabel, as assistant professor of chemical engineering. He has been bioastronautics project officer for the U. S. Air Force Space Systems Division since 1961. He is a graduate of the University of Illinois and was granted the doctor's degree by the University of Washington, Seattle.

Dr. Kiyotsugu Ohji, as visiting assistant professor of engineering mechanics. He has taught mechanical engineering at Osaka University, in Japan, since 1958. He received the bachelor's degree from Osaka but master's and doctor's degrees were conferred by Kyoto University.

Dennis J. Royer, as research assistant in chemical engineering. He has been a teaching assistant at Carnegie Tech since 1962. In 1960 he was a laboratory assistant in the petroleum refining laboratories at Penn State, where he received his bachelor of science degree.

(Continued on page six)

THE ARTS



artists series

Lotte Lenya will be starred in the Cheryl Crawford production of "Brecht on Brecht," the dramatic anthology of poems, songs, ballads, scenes and observations from the works of the late German playwright, Berthold Brecht, this evening (Friday) and tomorrow evening at 8:30 p.m. in Schwab Auditorium.

Currently on tour of colleges and universities in this country, the show had a successful run of 424 performances in New York before closing Jan. 3 of this year.

Miss Lenya was internationally known in pre-Hitler Germany and she has had an equally impressive career in American theatre and films. She is the widow of Kurt Weill, brilliant composer of "The Three Penny Opera" in which Miss Lenya starred in the original Berlin production.

Ticket sales, if any remain, continue today (Friday) at the HUB desk.

pavilion theatre

William Golding's comedy, "The Brass Butterfly," will open the Pavilion Theatre season Tuesday, Oct. 22, and run through Saturday, Oct. 26. Warren Smith directs the play.

The play concerns a young inventor, in the third century A.D., who seeks help from the Emperor so he may continue his efforts to aid humanity through his discoveries. The Emperor is struck by the beauty of the young man's sister.

Season tickets for the six Pavilion Theatre productions will continue on sale until Oct. 26 and may be obtained by calling the box office, UN 5-6309.

The box office will be open through Monday from 10 a.m. to 6 p.m. and from Tuesday through Saturday, Oct. 22-26, will be open from 10 a.m. to 10 p.m.

music series

The first publication of the new Penn State Music Series of the University Press will be issued Nov. 1.

Advanced copies of a cantata by Handel on St. Cecilia, "Look Down, Harmonious Saint," as edited by Denis Stevens, professor of music, have already been sent to reviewers. Stevens is also general editor of the Series, under which volumes edited by musicologists from Europe and

America have been invited to publish.

Although the Series will have as its principal aim the publication of practical rather than purely scholarly editions, Stevens hopes that monumental works will appear from time to time. He has already secured for the series exclusive American rights to the second edition of Charles van den Borren's "Polyphonia Sacra," a volume of some 300 pages presenting transcriptions of 15th century music, annotated by the editor.

alard quartet

The first recital by the Alard Quartet this term will be given Wednesday, Oct. 23, at 8:30 p.m. in Schwab Auditorium. The program will include Mendelssohn's Quartet in E-Flat Major, Op. 12; Shostakovich's Piano Quintet, with Sylvia Glickman, teacher at Haverford College, as pianist; and Beethoven's Quartet, Op. 95.

art exhibit

Prints by the Japanese artist, Jun-ichiro Sekino, will be exhibited in the HUB Gallery from Monday, Oct. 21, to Nov. 6.

A public reception will be held in the Gallery Monday from 7 to 9 p.m.

The artist is president of the Japanese Etching Society. His works have been exhibited in many countries and in this country in such galleries as the Chicago Art Institute, the Brooklyn Museum, the Philadelphia Museum, and The Freer Gallery of Arts in Washington, D. C.

Mr. Sekino will give a printmaking demonstration in the HUB Lounge Wednesday, Oct. 23, at 8 p.m.

GRADUATE EXAM

The Graduate Record Examination will be administered Saturday, Nov. 16, in 101 Chambers Building. Deadline for applications is Nov. 1 at the Educational Testing Service. Forms and instruction booklets may be obtained from Dr. G. H. Pritham, Room 104 Frear Laboratories.

Aptitude tests will be given Nov. 16 at 8:45 a.m. and Advanced Tests at 1:45 p.m. Only one Advanced Test may be taken in one day.

The next test will be given Jan. 18.

FLC SPEAKER

Dr. H. Kirk Dansereau, professor of sociology, will address the Faculty Luncheon Club Monday at 12:30 p.m. in HUB dining room "A." All members of the faculty are invited.

MEAT SALES

Sales at the Meats Laboratory sales room began Oct. 11 and will be conducted each Friday, from 1:30 to 5 p.m.

BOOKS



"Bargaining Behavior," by Lawrence E. Fouraker, former professor of economics now at Harvard, and the late Dr. Sidney Siegel, who was research professor of psychology at the time of his death in November, 1961, has been published by McGraw-Hill. The authors collaborated in the research for the book during 1960-61 under a grant from the National Science Foundation. They also authored the book, "Bargaining and Group Decision Making," published by McGraw-Hill in 1961.

The textbook, "Successful Conference and Discussion Techniques," by Harold P. Zelko, professor of speech, has been published by McGraw-Hill in a paperback edition and by the Antwerp, Holland, publisher Uitgeverij Het Spectrum N.V., in a Dutch language edition. The book was originally published by McGraw-Hill in a college text and in a trade edition and was adopted as a leading Business Book Club choice.

Dr. Max D. Richards, professor of management, is co-author of "Readings in Management," which has been recently published in a second edition by South-Western Publishing Co. It contains a cross-section of management literature.

AAUP meeting

Speakers for the open meeting of the local chapter of the American Association of University Professors Tuesday, Oct. 22, at 8 p.m. in Room 124 Sparks, will include Dr. Nelson McGeary, assistant to the President; Dr. Norman Pendered, associate professor of industrial education; and Dr. Arthur L. Williams, associate professor of insurance.

Dr. McGeary will discuss the problems of the new medical school, Dr. Pendered the changes in tenure provisions, and Dr. Williams on retirement.

Measurement

Francis G. Tatnall, consultant to the instruments division of the Budd Company, will address a joint meeting, to which the public is invited, of the American Society of Mechanical Engineers, American Society of Tool and Manufacturing Engineers, and the American Society for Metals today (Friday) at 7:30 p.m. in Room 101 Chambers.

He will speak on "The Philosophy of Measurement."

CALENDAR



Friday, Oct. 18

Artists Series, program, 8:30 p.m., Schwab, (Also Saturday, Oct. 19). Lotté Lenya, on "Brecht on Brecht."

Sigma Xi lecture, 8 p.m., Mineral Industries Auditorium, Dr. Robert N. Colwell, University of California, on "Aerial Photography—A Valuable Sensor for the Scientist."

Talk by Francis G. Tamm, Budd Company, on "The Philosophy of Movement," on the AS.M.E., A.S.T.M.E., and V.S.M. joint meeting, 7:30 p.m.

Mineral Industries Colloquium, 3:55 p.m., Mineral Industries Auditorium, Dr. Ralph B. Baldwin, astronomer, physicist, and author, on "Fare and Measure of the Moon."

Biophysics Seminar, 11:10 a.m., Room 105 Walker, Dr. Lawrence Grossman, Brandeis University, on "The Effect of Ultraviolet Radiation on the Coding Properties of Polynucleotides."

UCA Faculty Seminar, 12 noon, The Chapel, "The Renewal of the Church," with The Rev. Egbert Donovan, O.S.B., and The Rev. Richard E. Wentz.

Saturday, Oct. 19

Artists Series program, "Brecht on Brecht," with Lotté Lenya, 8:30 p.m., Schwab.

Sunday, Oct. 20

Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. Seth R. Brooks, Universalist National Memorial Church, Washington, D. C., on "Myself and One Other Person."

Hillel Graduate Association lecture, 8 p.m., Hillel Lounge, Dr. Nathan Schlesinger, University of Australia on leave as visiting fellow in philosophy at the University of Pittsburgh, on "Is It Useful to Argue About Religion?"

Monday, Oct. 21

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. H. Kirk Damersan, on "Highway Impact Research: A Five-Year Review."

State College Color Slide Club, 7:30 p.m., Room 101 Chambers, Chauncey Lang, professor emeritus of agriculture extension.

Engineering Mechanics Seminar, 1 p.m., Room 232 Hammond, Dr. Walter Jaumeis, on "Fluids with Oriented Particles."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. Robert S. Dietz, U. S. Coast and Geodetic Survey, on "Astroblemes and Cryotransplosion Structures."

Graduate School Lecture, 8 p.m., Mineral Industries Auditorium, Dr. Gardner Ackley, Council of Economic Advisers, on "United States Economic Growth: Is It Good Enough?"

Opening of exhibition of prints by Jun-ichiro Sekino, HUB Gallery, Reception, 7:9 p.m., in gallery.

Tuesday, Oct. 22

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. Gardner Ackley, Council of Economic Advisers, on "Economic Growth."

Open meeting of the American Association of University Professors, 8 p.m., Room 121 Sparks, Dr. Nelson McGeary, Dr. Nor-

man Pendered, and Dr. Arthur L. Williams, speakers.

Pavilion Theatre opening night, "The Brass Butterfly," by William Goiding, 8 p.m. Continues through Oct. 26.

Wednesday, Oct. 23

Recital by Alard String Quartet, 8:30 p.m., Schwab Auditorium.

Demonstration of printmaking by Japanese artist, Jun-ichiro Sekino, 8 p.m. HUB Lounge.

Thursday, Oct. 24

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore, Professor W. H. Reinmuth, Columbia University, on "Modern Electro-analytical Techniques: Applications to Physical Organic Chemistry."

Friday, Oct. 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. Claude A. Klein, Raytheon Co., on "Physics of Pyrolytic Graphitic."

Biophysics Seminar, 11:10 a.m., Room 105 Walker, Dr. William Taylor, assistant professor of biophysics, on "Configuration of Macromolecules."

SERVICES OF WORSHIP

(All services in Helen Eakin Eisenhower Chapel except as noted.)

Roman Catholic—Monday through Saturday, 7 a.m. and 11:10 a.m.; Monday through Friday, 5:05 p.m. (except first Friday, 5:45 p.m.); Sunday, 7 a.m.; Sunday (in Hietel Union Building), 9:15, 10:15, and 11:15 a.m.

Episcopal—Holy Communion, Monday and Thursday, 4 p.m.; Tuesday and Friday, 8 a.m.; Wednesday, 9 p.m.; Saturday, 9:30 a.m.

Methodist—Service of Worship, Sunday, 9 a.m.; Holy Communion, First Sunday of each month, 9 a.m.

Lutheran—Service, Sunday, 10 a.m., Holy Communion, Sunday, 8 a.m.; Vespers, Wednesday, 6:30 p.m.

Reformed—Vespers in Reformed tradition, Thursday, 6:30 p.m.

State police

A program of college work for personnel of the Pennsylvania State Police has been initiated with classes in Sociology I, arranged through the Continuing Education Services, this term.

It is expected that classes will be held in Allentown-Bethlehem, Butler, Erie, Greensburg, Harrisburg, Hazleton, Hollidaysburg, Johnstown, Lancaster, Philadelphia, Pottsville, Reading, Scranton, Punxsutawney, Wilkes-Barre, and Williamsport.

The three-credit course, which will be concerned with social structure, basic human institutions, analysis of social processes, and major social forces, will serve as a starting point for additional courses.

Through a survey, it was discovered that more than 750 State policemen were interested in enrolling voluntarily in courses of study on the college level.

Scholarships, loans

WILLIS BRYANT

Mr. and Mrs. Willis Bryant, of State College, have provided for the first scholarship to be designated for a student in medicine. Until the Milton S. Hershey Medical Center has developed far enough in its program, the scholarship will go to a male or female student enrolled in the five-year medical program which is conducted in cooperation with Jefferson Medical College, Philadelphia. When the Hershey Center is operative, the scholarship will be provided to one who has completed requirements for the medical degree and is to take his residency in pediatrics at the Center. The Scholarship is a memorial to the deceased infant son of Mr. and Mrs. Bryant.

HRB-SINGER

A loan fund, titled the HRB-Singer Loan Fund, has been set up to aid able and needy students in scientific fields, including those in the Colleges of Science and Engineering, in either baccalaureate or associate degree programs. The Fund, which replaces a Walter N. Brown Memorial Graduate Student Fund, will provide loans with the usual provisions of University loan funds. The Director of Student Aid, in consultation with the dean of the student's college, will be responsible for administering the loans.

REA SCHOLARSHIP

The Pennsylvania Rural Electric Association has established a scholarship fund which will provide annually a \$375 scholarship for a student in agricultural education and a \$375 scholarship for a student in some other field in agriculture. Recipients must be from families served by one of the REA Cooperatives in Pennsylvania, must have and maintain an average of no less than 2.75, and be of good character. The scholarship may be renewed annually. Either freshmen or upper classmen are eligible.

NSF POSTDOCTORAL

Applications for the National Science Foundation Postdoctoral Fellowship Program will be accepted at the Fellowship Office, National Academy of Sciences-National Research Council, 2101 Constitution Ave., NW, Washington, D.C., 20418, until December 16.

About 185 awards will be made in the several science fields on the basis of ability as evidenced by letters of recommendation and other appropriate evidences of scientific competence.

A stipend of \$5,500 per year will be awarded to successful applicants under the program and dependency allowances will be provided to married Fellows.

Fellows may engage in scientific study and/or scientific work at appropriate nonprofit American or nonprofit institutions.

Application materials may be obtained from the Office noted above.

ITEMS OF INTEREST



ELECTED AND APPOINTED

BERGMAN, E. L., horticulture, elected chairman, Mid-Atlantic States Fertilizer Grades and Ratio Committee.

CORPER, E. L., zoology, appointed editor of the Transactions of the American Fisheries Society.

ELLSWORTH, C. A., industrial engineering, appointed to the Educational Activities Committee of the American Welding Society.

DEFOCK, DENIS, botany at McKeesport, elected to active membership in the New York Academy of Sciences.

FERRARA, W. L., accounting, appointed regional control chairman of the accounting careers committee for the American Accounting Association.

FOLK, JEWEL, a new member, appointed a member of the Advisory Board of the American Comparative Literature Association.

HUNTER, A. S., agronomy, elected secretary of the Mid-Atlantic States Fertilizer Grades and Ratio Committee.

MARKS, C. R., electrical engineering, named vice-chairman of the Committee on Motor Vehicle Lighting of the Illuminating Engineering Society.

NELSON, G. K., accounting, reappointed educator-consultant to the Comptroller General of the United States.

WILLIAMSON, M. A., Engineering, appointed as one of two U. S. members of a steering committee of the Organization for Economic Cooperation and Development to arrange a conference on the administration of research to be held in Europe next year.

ARTICLES AND PAPERS

BERGMAN, E. L., horticulture, and BOYLE, J. S., plant pathology, "Effect of Tobacco Mosaic Virus Strains on Mineral Content of Tobacco Leaves," at the annual meeting of the American Society for Horticultural Science.

BROWN, J. L., Jr., Ordnance Research Laboratory, "On the Equivalence of Completeness and Semi-completeness for Integer Sequences," in the Sept. issue of Mathematics.

CADY, P. D., civil engineering, "How to Stop Slug Flow in Condenser Outlet Piping," in the September issue of Hydrocarbon Processing and Petroleum Refiner.

GRONATA, M. C., Allentown, a statement analyzing some of basic elements of the Potomac River Report before the Engineer Board for Rivers and Harbors at Washington, D. C.

GRUN, PAUL, botany, "Plasma Analysis of Species of Solanum," at the 11th International Genetics Congress at The Hague, Holland.

HASSLER, W. W., Jr., history, "The Civil War's Crucial Day: July 1, 1863," at the 32nd annual meeting of the Pennsylvania Historical Association at Gettysburg College.

HOSLER, C. L., meteorology, "Growth and

Conglomeration of Snow Crystals," at the 13th Assembly, International Union for Geodesy and Geophysics at Berkeley, Calif.

KRITH, M. L., geochemistry, and ANDERSON, G. M., mineralogy, "Radiocarbon Dating: Fictitious Results with Mollusk Shells," in the Aug. 16 issue of Science.

KOCHER, FRANK, mathematics, with HEIMER, R. T., Florida State University, "Techniques of Solving Rational Equations" in the Nov. issue of The Mathematics Teacher.

NESBITT, J. B., civil engineering, with MURPHY, R. S., "Activated Sludge Assimilation of the Cyanide Ion," at the annual meeting of the Water Pollution Control Federation in Seattle.

NEUBERGER, HANS, meteorology, with HOSLER, C. L. and KOCUMOND, WARREN, "Vegetation as Aerosol Filter," at the Third International Congress of Biometeorology at Paris, France.

OVERBERGER, PATRICIA M., Ogoniz mathematics, "Suggestions for Equating the Level of the Mathematical Background of Two-Year Technology Students" at the 71st annual meeting of the American Society for Engineering Education.

PANOFKY, H. A., meteorology, "Change of Terrain and the Wind Profile," at the 13th Assembly, International Union for Geodesy and Geophysics at Berkeley, Calif.

PIKE, RUTH L., foods and nutrition, "Sodium Intake During Pregnancy" at the 46th annual meeting of the American Dietetic Association.

READ, H. J., metallurgy, "The Effects of Hydrogen Charging on the Mechanical Properties of Electrodeposited Nickel," at the national meeting of the Electrochemical Society in New York.

— with LINDSAY, R. W., metallurgy, and GRAHAM, A. H., "Structure and Mechanical Properties of Electroless Nickel," at the same meeting.

— "Electroforming—Uses, Materials, and Problems" before the Cleveland section of the Electrochemical Society, and at a meeting of the Niagara Falls, N. Y., section, also.

ROWLANDS, R. O., Ordnance Research Laboratory, "FM Signals Tailored to Specific Sonar and Radar Requirements," at the West Coast Convention of the I.E.E.E., San Francisco.

SHEARER, J. L., engineering, "Control Components—New Design Principles and Devices" at the Second Congress of the International Federation for Automatic Control, in Basel, Switzerland.

SCHRAMER, W. J., accounting, "New Approaches to Accounting Theory: The Need for Evolution," before the convention of the American Accounting Association at Stanford University.

SMITH, W. S., theatre arts, "R. J. Campbell at City Temple," in the Sept. 18 issue of the Christian Century.

TAYLOR, CLARICE C., hotel and institution administration, "The Use of Punched Card Data Processing to Plan and Control Food Usage and Cost," at the 46th annual meeting of the American Dietetic Association.

VEATCH, JEANNETTE, education, "Conversation

... On Supreme Court Decision on Religion in Public Schools" in Instructor Magazine.

WRIGHT, J. M., botany, "Immunogenetic Relationships of Trout," at the 11th International Genetics Congress at The Hague, Holland.

In the publication, "The Proceedings of the Fifth International Conference on Scientific Aspects of Mushroom Growing," articles by the following: L. R. KNEFONE and W. H. ALLISON, "Influence of Compost pH and Casing Soil pH on Mushroom Production"; L. R. KNEFONE and J. D. LOCKARD, "Investigation of the Metabolic Cases produced by Agaricus Bisporus (Lange) Sing"; L. R. KNEFONE and E. C. MASON, "Mushroom Yields as Influenced by Degree of Maturity at Time of Harvest"; L. R. KNEFONE, J. D. LOCKARD, and R. A. HAGER, "Infectivity Studies with X-Disease"; R. J. SNEISINGER, "New Materials and Methods for the Control of Mushroom Pests"; F. J. MCARDLE and D. CURVEN, "Some Factors Influencing Shrinkage of Mushrooms during Processing."

LECTURES AND TALKS

DELISKOVA, VLADIMIR, child development and family relationships, "Stay in School and Prepare for Marriage," as the keynote address for the regional conference of Future Homemakers of America at Middleburg High School.

— "What We Know About Teen-age Marriages," at Schoolmen's Week, at the University of Pennsylvania.

GOLDBERG, STELLA, child development and family relationships, "New Horizons in Family Life Education" at a meeting of the Home Economics Teacher's Association, and "The Schenectady Family Life Education Program," at the same meeting.

JORDAN, JOSEPH, chemistry, "Reference Materials for Solution Calorimetry," at the 18th Calorimetry Conference in Bartlesville, Okla.

LANCASTER, O. E., engineering education, "Improvement in Engineering," at Oklahoma State University.

MARIN, JOSEPH, engineering mechanics, on materials and design at an Institute on Mechanical Behavior at Wayne State University.

MCDONALD, E. T., speech pathology, at the annual meeting of the special education personnel of the State of South Dakota.

MURPHY, G. E., education, keynote speaker for the 1963 Rochester (N.Y.) Area Council, International Reading Association Conference.

NIEHL, B. W., industrial engineering, "New Product Design," at the Sept. 11 meeting of the Niagara Frontier Society of Industrial Engineers.

OLIVER, R. T., speech, "Diseases of Discontent in Today's America," at a Bloomsburg State College assembly.

SHEARER, J. L., engineering, series of lectures on fluid control systems in Stockholm, Sweden, under sponsorship of Swedish Society of Engineers.

WALMER, J. D., Riechout Health Center, "Academic Banquet and the Appetite for Learning" at the In-Service Conference for Teachers at Lancaster.

PERSONNEL —

(Continued from page five)

Henry J. Socoloski, as instructor in engineering. He has been self-employed as a registered architect and was a consulting architect for the E. I. DuPont de Nemours of Trenton, N. J. He received both bachelor's and master's degrees from Penn State and taught extension courses from 1942 to 1944.

Dr. Pericles S. Theocaris, as visiting professor of engineering mechanics. He has been professor and director of the Laboratory for Testing Materials at the National Technical University in Athens, Greece, and has also held visiting research positions at Illinois Institute of Technology and Brown University. The master's degree was conferred by the Athens Technical University, the doctor of applied science by the University of Brussels, and the doctor of science by the University of Paris.

Dr. Yechiel Weitsman, as assistant professor of engineering mechanics. He was a researcher at Columbia University before coming here and has also worked with the research branch of the Watervliet Arsenal and as a structural design engineer for the Public Works Department in Tel-Aviv, Israel. His degrees were conferred by the Technion in Haifa, Israel, the University of Connecticut, and Rensselaer Polytechnic Institute.

HEALTH AND PHYS. ED

John H. Doolittle, as instructor in physical education. He is former instructor of health and physical education at North Plainfield, N. J., High School. He is a graduate of Panzer College and is currently completing work on his master's degree at New York University.

Thomas W. Kelley, as instructor in physical education at the Altoona Campus. He is a former graduate assistant at Penn State and taught and coached at Cowanesque Joint High School, Westfield, Pa. He was graduated from Western Michigan University and received his master's degree from Penn State.

Alfred E. Leister, as instructor in physical education. He was a graduate assistant until his appointment. He was graduated from Lock Haven State College.

Roger L. Sweeting, as instructor in physical education at the Behrend Campus. He has been a graduate assistant here. His bachelor's degree was conferred by Bowling Green State University and master of science by Penn State this year.

HOME ECONOMICS

Dr. William T. Brown, as associate professor of family housing and home art. He came to Penn State from the State University of New York at Oswego, where he taught art education and fine art. He has exhibited oil paintings at Penn State, including a one-man show in 1956, and has had shows at many other locales. He was graduated from Kutztown State College and received master's and doctor's degrees from Penn State.

Joseph J. Ciech, as instructor in hotel and institution administration. He was formerly with Stouffer Foods Corp. as executive assistant and manager of the restaurant unit in Philadelphia. He received the bachelor's degree in hotel administration from Penn State in 1958.

Norma J. Duff, as assistant professor of hotel and institution administration. She was dietitian and instructor of student nurses at Bryn Mawr Hospital for two years before her appointment here. She attended Juniata College and received a bachelor's degree from Penn State in 1954 and last March a master's degree.

Mrs. Bessie Brooks West, as visiting professor of hotel and institution administration. During the past year she was acting chairman of food service administration at the State University of New York at Cobleskill but for 28 years she was head of the department of institutional management at Kansas State University. She received both bachelor's and master's degrees from the University of California and an honorary master of education degree from Eastern Michigan State University.

LIBERAL ARTS

John W. Lamer, as instructor of history at the Altoona Campus. He was a graduate teaching assistant at the University of Alberta, Canada, before his appointment here. He was graduated from Rice University and was granted the master of arts degree in history by the University of Pittsburgh.

William E. Gibbs, as instructor of Journalism. A 1957 graduate of the University he immediately established an advertising business in York, Pa., and in 1960 became vice president of the family-owned company of Gibbs, Sauters, and Gibbs, Inc.

Ivan L. Preston, as assistant professor of journalism. He was assistant instructor at Michigan State University for the past three years while working for his doctor's degree. He is a graduate of the College of Wooster.

ORDNANCE RESEARCH LAB

Richard G. King, as research associate. He has been project supervisor at The Johns Hopkins University Applied Physics Laboratory. He is a graduate of California Institute of Technology, in electrical engineering.

SCIENCE

David A. Breil, as instructor of botany at Mont Alto Campus. He has been instructor in botany at the University of Massachusetts, from which he obtained both bachelor of science in geology and master of science in botany degrees.

George Gratzner, as visiting assistant professor of mathematics. He has been a scientific worker for the Mathematical Research Institute of the Hungarian Academy of Science. He is a native of Budapest and received bachelor's and doctor's degrees in mathematics from Eotvos University there.

Dr. John Jagger, as visiting associate professor of biophysics. He has been biologist at the Oak Ridge National Laboratory since 1956. He received all three degrees from Yale University.

Robert T. McWade, Jr., as assistant professor of chemistry at the Wyomissing Center. He has served with Western Electric Co., Laureldale, Pa., and was a planning engineer. He is a Yale University graduate in engineering and was granted a master's degree in chemical engineering by M.I.T.

faculty BULLETIN

Vol. 51, No. 14 Oct. 18, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Research scholar

John M. Harrison, associate professor of journalism, has been appointed Research Scholar of the College of the Liberal Arts. He will complete a biographical study of David Ross Locke, editor and satirist, who gained recognition for his "Petroleum Vesuvius Näsby" letters which he wrote during and after the Civil War.

A member of the faculty for two years, Harrison came from the University of Iowa where he was instructor in journalism and publisher of student publications and where he obtained his master's degree in 1961.

A graduate of the State University of Iowa, he was editor for a number of years of his family's weekly newspaper in Oakland, Iowa, and subsequently served on the staff of the Toledo Blade.

He is the author of articles in the Columbia Journalism Review, the Journalism Quarterly, Northwest Ohio Quarterly, and Nieman Reports.

Calvert commended

Dr. Seymour Calvert, appointed recently to the faculty as professor of mechanical engineering, was commended by the City Council of Cleveland, Ohio, for his work as chairman of the Mayor's Advisory Board on Air and Stream Pollution during 1960-61. In that position he was credited with making a significant contribution in the furtherance of the enactment of a modern air pollution code for the city.

He will be director of the Air Environment Center here.

Economics adviser to speak

Dr. Gardner Ackley, member of the President's Council of Economic Advisers, will speak on "U. S. Economic Growth: Is It Good Enough?" in the Fall Term Graduate School Lecture Series Monday, Oct. 21, at 8 p.m. in the Mineral Industries Auditorium, Room 26 Mineral Sciences Building.

On leave from his position as professor of economics at the University of Michigan, Dr. Ackley has served the Federal Government in many capacities. He was a consultant for the National Resources Planning Board in 1940-41; economist for the Office of Price Administration, 1941-43, 1944-46; economist for the Office of Strategic Services, 1943-44; and economic adviser and assistant director in the Office of Price Stabilization, 1951-52. He was a consultant to the U. S. Army in 1961.

He has been a member of the University of Michigan faculty since 1940 and professor since 1952. He is the author of "Macroeconomic Theory," published by Macmillan in 1961, and of articles and reviews in professional journals.

From 1959 to 1962, Dr. Ackley was director of the Social Science Research Council and this year is vice president of the American Economic Association.

Summer enrollment

The total enrollment for the Summer Term was 36,094, official figures provided by the Office of the Registrar indicate.

Included in the total were 9,393 taking credit work and 26,701 registered for non-credit work. Of the credit students enrolled, 7,347 were in residence, 2,046 being non-resident. Of those taking non-credit work, 18,324 were resident students, 8,377 non resident.

Undergraduates in the total enrollment numbered 5,800; graduates 2,740; specials 853; those in short courses, 7,005; those in formal Continuing Education work, 233; in Informal Continuing Education work, 13,473; and taking correspondence courses, 5,990.

Sigma Xi lecture

Dr. Robert N. Colwell, an outstanding authority on photo interpretation and photogrammetry, will speak on the subject, "Aerial Photography—A Valuable Sensor for the Scientist," Friday, Oct. 18, at 8 p.m. in the Mineral Industries Auditorium.

The lecture is sponsored by the Society of Sigma Xi, for which Dr. Colwell is a national lecturer this year. The lecture is open to all interested.

Trustee actions

At its most recent meeting, the executive committee of the Board of Trustees approved the following actions:

Reorganization of the program in forestry as a curriculum in the College of Agriculture, with majors in forest sciences and forest technology. In the forest sciences major there are options in forest science and wood science. In the forest technology major are options in forest management and wood technology.

Establishment of a new curriculum in speech pathology and audiology, with options for teachers of the deaf and for personnel to work in the field of clinical speech and hearing therapy. The program will be administered by the department of special education. Those preparing to be teachers of the deaf will spend the last two terms of the senior year at the Pennsylvania School for the Deaf at Mount Airy where they will study and serve as student teachers.

Three properties on North Atherton St. have been purchased. They are located to the southwest of the Ordnance Research Laboratory.

Curriculums in biochemistry, microbiology, botany, medical technology, and zoology in the College of Science were approved. All become effective immediately. The five curriculums are similar to programs that have been given as majors in agricultural and biological sciences in the College of Science.

UCA drive

The solicitation of funds by the University Christian Association will continue next week. Faculty and staff members who wish to contribute and have not been contacted may send their contributions to the UCA offices, The Chapel.

Knower visit

Dr. Franklin H. Knower, professor of speech at Ohio State University, will visit the Speech Department Oct. 24 and 25 meeting with graduate students and faculty. The visit is sponsored by the Graduate Forum, a professionally oriented graduate student organization in the department.

THE ARTS



artists series

Lotte Lenya will be starred in the Cheryl Crawford production of "Brecht on Brecht," the dramatic anthology of poems, songs, ballads, scenes and observations from the works of the late German playwright, Berthold Brecht, this evening (Friday) and tomorrow evening at 8:30 p.m. in Schwab Auditorium.

Currently on tour of colleges and universities in this country, the show had a successful run of 424 performances in New York before closing Jan. 3 of this year.

Miss Lenya was internationally known in pre-Hitler Germany and she has had an equally impressive career in American theatre and films. She is the widow of Kurt Weill, brilliant composer of "The Three Penny Opera" in which Miss Lenya starred in the original Berlin production.

Ticket sales, if any remain, continue today (Friday) at the HUB desk.

pavilion theatre

William Golding's comedy, "The Brass Butterfly," will open the Pavilion Theatre season Tuesday, Oct. 22, and run through Saturday, Oct. 26. Warren Smith directs the play.

The play concerns a young inventor, in the third century A.D., who seeks help from the Emperor so he may continue his efforts to aid humanity through his discoveries. The Emperor is struck by the beauty of the young man's sister.

Season tickets for the six Pavilion Theatre productions will continue on sale until Oct. 26 and may be obtained by calling the box office, UN 5-6309.

The box office will be open through Monday from 10 a.m. to 6 p.m. and from Tuesday through Saturday, Oct. 22-26, will be open from 10 a.m. to 10 p.m.

music series

The first publication of the new Penn State Music Series of the University Press will be issued Nov. 1.

Advanced copies of a cantata by Handel on St. Cecilia, "Look Down, Harmonious Saint," as edited by Dea-is Stevens, professor of music, have already been sent to reviewers. Stevens is also general editor of the Series, under which volumes edited by musicologists from Europe and

America have been invited to publish.

Although the Series will have as its principal aim the publication of practical rather than purely scholarly editions, Stevens hopes that monumental works will appear from time to time. He has already secured for the series exclusive American rights to the second edition of Charles van den Borren's "Polyphonia Sacra," a volume of some 300 pages presenting transcriptions of 15th century music, annotated by the editor.

alard quartet

The first recital by the Alard Quartet this term will be given Wednesday, Oct. 23, at 8:30 p.m. in Schwab Auditorium. The program will include Mendelssohn's Quartet in E-Flat Major, Op. 12; Shostakovich's Piano Quintet, with Sylvia Glickman, teacher at Haverford College, as pianist; and Beethoven's Quartet, Op. 95.

art exhibit

Prints by the Japanese artist, Jun-ichiro Sekino, will be exhibited in the HUB Gallery from Monday, Oct. 21, to Nov. 6.

A public reception will be held in the Gallery Monday from 7 to 9 p.m.

The artist is president of the Japanese Etching Society. His works have been exhibited in many countries and in this country in such galleries as the Chicago Art Institute, the Brooklyn Museum, the Philadelphia Museum, and The Freer Gallery of Arts in Washington, D. C.

Mr. Sekino will give a printmaking demonstration in the HUB Lounge Wednesday, Oct. 23, at 8 p.m.

GRADUATE EXAM

The Graduate Record Examination will be administered Saturday, Nov. 16, in 101 Chambers Building. Deadline for applications is Nov. 1 at the Educational Testing Service. Forms and instruction booklets may be obtained from Dr. G. H. Pritham, Room 104 Frear Laboratories.

Aptitude tests will be given Nov. 16 at 8:45 a.m. and Advanced Tests at 1:45 p.m. Only one Advanced Test may be taken in one day.

The next test will be given Jan. 18.

FLC SPEAKER

Dr. H. Kirk Dansereau, professor of sociology, will address the Faculty Luncheon Club Monday at 12:30 p.m. in HUB dining room "A." All members of the faculty are invited.

MEAT SALES

Sales at the Meats Laboratory sales room began Oct. 11 and will be conducted each Friday, from 1:30 to 5 p.m.

BOOKS



"Bargaining Behavior," by Lawrence E. Fouraker, former professor of economics now at Harvard, and the late Dr. Sidney Siegel, who was research professor of psychology at the time of his death in November, 1961, has been published by McGraw-Hill. The authors collaborated in the research for the book during 1960-61 under a grant from the National Science Foundation. They also authored the book, "Bargaining and Group Decision Making," published by McGraw-Hill in 1961.

The textbook, "Successful Conference and Discussion Techniques," by Harold P. Zelko, professor of speech, has been published by McGraw-Hill in a paperback edition and by the Antwerp, Holland, publisher Uitgeverij Het Spectrum N.V., in a Dutch language edition. The book was originally published by McGraw-Hill in a college text and in a trade edition and was adopted as a leading Business Book Club choice.

Dr. Max D. Richards, professor of management, is co-author of "Readings in Management," which has been recently published in a second edition by South-Western Publishing Co. It contains a cross-section of management literature.

AAUP meeting

Speakers for the open meeting of the local chapter of the American Association of University Professors Tuesday, Oct. 22, at 8 p.m. in Room 124 Sparks, will include Dr. Nelson McGeary, assistant to the President; Dr. Norman Pendered, associate professor of industrial education; and Dr. Arthur L. Williams, associate professor of insurance.

Dr. McGeary will discuss the problems of the new medical school, Dr. Pendered the changes in tenure provisions, and Dr. Williams on retirement.

Measurement

Francis G. Tatnall, consultant to the instruments division of the Budd Company, will address a joint meeting, to which the public is invited, of the American Society of Mechanical Engineers, American Society of Tool and Manufacturing Engineers, and the American Society for Metals today (Friday) at 7:30 p.m. in Room 101 Chambers.

He will speak on "The Philosophy of Measurement."

PERSONNEL MATTERS



DIED

Dr. Harrison M. Tietz, professor emeritus of anatomy and physiology, died Oct. 5, in Texas. A member of the faculty for 34 years, Dr. Tietz retired in 1960. Before his appointment to the faculty he was an entomologist with the U. S. Dept. of Agriculture.

APPOINTMENTS

DEPARTMENT HEADS

Dr. John H. Ferguson, professor of political science and public administration, has succeeded Dr. Elton Atwater as head of the department of political science. He will serve for a five-year period, and Dr. Atwater will continue as professor of political science.

Dr. George L. Brandon, as head of the department of vocational education, director of vocational teacher education, and professor of vocational education. He has been at Michigan State University since 1955, first as associate professor and later as administrative chairman of industrial education. He received both bachelor's and master's degrees from Miami University, Oxford, Ohio, and doctor of philosophy degree from Ohio State.

DISTINGUISHED VISITING PROFESSORS

Dr. Carman G. Blough, as distinguished visiting professor of accounting and business for the Fall Term. One of the country's foremost experts in accounting and auditing theory, Dr. Blough is the Warner Ring Visiting Professor of Accounting at the University of Florida one semester each year. He is former director of research for the American Institute of Certified Public Accountants and since 1961 has served as research consultant for the Institute. He was adjunct professor of accounting at Columbia University from 1947 to 1961 and has served in a number of governmental positions as well as at Armour Institute of Technology and at the University of North Dakota.

Dr. Gertrude A. Esteros, as distinguished visiting professor of family housing and home art, for the Fall Term. She is chairman of the Division of Related Art, School of Home Economics, University of Minnesota, and served here on the art evaluation team last May. She has taught college courses in Missouri, Illinois and Minnesota and among her writings was the section on interior design in the Encyclopedia Britannica.

Dr. Harold B. Maynard, as distinguished visiting professor of industrial engineering for the Fall and Spring Terms. He is president of the Maynard Research Council in Pittsburgh and chairman of the H. B. Maynard and Co., Inc., management consulting firm, which has branch offices throughout

the country and in Europe and South America. He is author, co-author, or editor of eight books and has more than 200 papers on management. He has been given the Wallace Clark Medal, the Gilbreth Medal, and the Melville Medal, and was awarded an honorary doctor of laws degree by the University of Miami, in 1956. He has also received a number of other citations.

AGRICULTURE

Dr. John L. George, as associate professor of wildlife management. He has been research staff specialist for the Bureau of Sport Fisheries and Wildlife, Washington, D. C. since 1958. He was granted all three degrees in zoology and wildlife by the University of Michigan.

Gary W. King, as assistant professor of agricultural economics. He was a member of the Michigan State University faculty from 1961 until his appointment here. He was granted the bachelor of arts degree from Grove City College, master of arts in education from Michigan State, and is working on his doctorate in sociology at Michigan State.

ARTS AND ARCHITECTURE

Ena Drubnoff, as instructor in architecture. She has been a member of the staff of Pereira and Associates, architects and planners, Los Angeles, since 1961. She is a graduate of the University of Southern California and is a registered architect in California.

Dr. Frank F. Ehrenthal, as visiting lecturer in architecture. An internationally known architect with offices in San Francisco, he has practiced as an independent architect on the West Coast since 1948. He is a native of Budapest, Hungary, but studied at the University of Padua, Italy, the Institute of Technology at Brunn, Czechoslovakia, and received the Dottore in Architettura degree from the University of Florence, Italy.

Alan R. Mandel, as instructor in music. He was visiting lecturer here in the Spring Term and from 1961 to 1963 was a Fulbright Scholar in Europe where he concertized widely. He is a graduate of the Juilliard School of Music and has studied at the Akademie Mozarteum in Austria and received the Diploma with Honors in composition and piano from the Bolzano Conservatory, in Italy.

Enrique E. Montenegro, as assistant professor of art. He was assistant professor of art at the University of Texas from 1957 until the present. A native of Valparaiso, Chile, he received the bachelor of fine arts degree in art from the University of Florida and was enrolled for post-graduate work at the Art Student's League in New York.

BUSINESS ADMINISTRATION

Dr. John J. Willingham, as assistant professor of accounting. He comes from Ohio State University where he was instructor in accounting since 1960. He received the bachelor's degree from Eastern Illinois University, master of science in business administration from Penn State, and doctor of philosophy from Ohio State.

EDUCATION

Dr. Rena L. Foy, as assistant professor of education and educational services. She has been associate professor of education at the State University of New York at Plattsburgh since 1962 and was previously a lecturer in history and philosophy of education at the University of Texas. She was granted bachelor's and master's degrees by Hardin Simmons University and doctor's degree by the University of Texas.

Dr. Keith A. Hall, as assistant professor of educational psychology. He was instructor in education at Indiana State College at Terre Haute, Ind., which granted him the bachelor of science and master of arts degrees. He was conferred the doctor of education degree in audio-visual education and educational psychology by Indiana University.

Andrew J. Karpinski, as instructor in special education. He was a special education teacher in the Penns Valley Schools at Spring Mills. He received both bachelor of science and master of education degrees from Penn State and worked toward his doctorate here from 1961-63.

Alan C. Riedesel, as assistant professor of elementary education. He has been a member of the faculty at Kansas State University since 1962 and previously was a special research assistant at the State University of Iowa. He is a graduate of Cornell College, Iowa.

ENGINEERING

David R. Cistone, as research assistant in chemical engineering. He was a junior process engineer with Texaco, Inc. He received the bachelor's degree from Drexel Institute of Technology this year.

Dr. Auguste B. El-Kareh, as assistant professor of electrical engineering. He is a former member of the technical staff of RCA Laboratories in Princeton, N. J. He received the diploma of engineering and doctor of science degree in electrical engineering and physics from the University of Delft, The Netherlands.

Eugene J. Greskovich, as research assistant in chemical engineering. He was part-time research assistant here and received both bachelor of science and master of science degrees in chemical engineering at Penn State.

Dr. Robert L. Kabel, as assistant professor of chemical engineering. He has been bio-astronautics project officer for the U. S. Air Force Space Systems Division since 1961. He is a graduate of the University of Illinois and was granted the doctor's degree by the University of Washington, Seattle.

Dr. Kiyotsugu Ohji, as visiting assistant professor of engineering mechanics. He has taught mechanical engineering at Osaka University, in Japan, since 1958. He received the bachelor's degree from Osaka but master's and doctor's degrees were conferred by Kyoto University.

Dennis J. Royer, as research assistant in chemical engineering. He has been a teaching assistant at Carnegie Tech since 1962. In 1960 he was a laboratory assistant in the petroleum refining laboratories at Penn State, where he received his bachelor of science degree.

(Continued on page six)

ITEMS OF INTEREST



ELECTED AND APPOINTED

- BERGMAN, E. L., horticulture, elected chairman, Mid-Atlantic States Fertilizer Grades and Ratio Committee.
- COPPER, E. L., zoology, appointed editor of the Transactions of the American Fisheries Society.
- ELLSWORTH, C. A., industrial engineering, appointed to the Educational Activities Committee of the American Welding Society.
- DE LORR, DENIS, botany at McKeesport, elected to active membership in the New York Academy of Sciences.
- FERRARA, W. L., accounting, appointed regional control chairman of the accounting careers committee for the American Accounting Association.
- FOLEJWSKI, ZBIGNIEW, Slavic languages, appointed a member of the Advisory Board of the American Comparative Literature Association.
- HUNTER, A. S., agronomy, elected secretary of the Mid-Atlantic States Fertilizer Grades and Ratio Committee.
- MARSH, C. R., electrical engineering, named vice-chairman of the Committee on Motor Vehicle Lighting of the Illuminating Engineering Society.
- NELSON, G. K., accounting, reappointed educator-consultant to the Comptroller-General of the United States.
- WILLIAMSON, M. A., Engineering, appointed as one of two U. S. members of a steering committee of the Organization for Economic Cooperation and Development to arrange a conference on the administration of research to be held in Europe next year.

ARTICLES AND PAPERS

- BERGMAN, E. L., horticulture, and BOYLE, J. S., plant pathology, "Effect of Tobacco Mosaic Virus Strains on Mineral Content of Tobacco Leaves," at the annual meeting of the American Society for Horticultural Science.
- BROWN, J. L., JR., Ordnance Research Laboratory, "On the Equivalence of Completeness and Semi-completeness for Integer Sequences," in the Sept. issue of Mathematics.
- CADY, P. D., civil engineering, "How to Stop Slug Flow in Condenser Outlet Piping," in the September issue of Hydrocarbon Processing and Petroleum Refiner.
- GRANATA, M. C., Allentown, a statement analyzing some of basic elements of the Potomac River Report before the Engineer Board for Rivers and Harbors at Washington, D. C.
- GRUN, PAUL, botany, "Plasma Analysis of Species of Solanum," at the 11th International Genetics Congress at The Hague, Holland.
- HASSLER, W. W., JR., history, "The Civil War's Crucial Day: July 1, 1863," at the 32nd annual meeting of the Pennsylvania Historical Association at Gettysburg College.
- HOSLER, C. L., meteorology, "Growth and

- Conglomeration of Snow Crystals," at the 13th Assembly, International Union for Geodesy and Geophysics at Berkeley, Calif.
- KEITH, M. L., geochemistry, and ANDERSON, G. M., mineralogy, "Radiocarbon Dating: Fictitious Results with Mollusk Shells," in the Aug. 16 issue of Science.
- KOCHER, FRANK, mathematics, with HEIMER, R. T., Florida State University, "Techniques of Solving Rational Equations" in the Nov. issue of The Mathematics Teacher.
- NESBITT, J. B., civil engineering, with MURPHY, R. S., "Activated-Sludge Assimilation of the Cyanide Ion," at the annual meeting of the Water Pollution Control Federation in Seattle.
- NEUBERGER, HANS, meteorology, with HOSLER, C. L. and KOCMOND, WARREN, "Vegetation as Aerosol Filter," at the Third International Congress of Biometeorology at Paris, France.
- OVERDEER, PATRICIA M., Ogontz mathematics, "Suggestions for Equating the Level of the Mathematical Background of Two-Year Technology Students" at the 71st annual meeting of the American Society for Engineering Education.
- PANOFKY, H. A., meteorology, "Change of Terrain and the Wind Profile," at the 13th Assembly, International Union for Geodesy and Geophysics at Berkeley, Calif.
- PIKE, RUTH L., foods and nutrition, "Sodium Intake During Pregnancy" at the 46th annual meeting of the American Dietetic Association.
- READ, H. J., metallurgy, "The Effects of Hydrogen Charging on the Mechanical Properties of Electrodeposited Nickel," at the national meeting of the Electrochemical Society in New York.
- with LINDSAY, R. W., metallurgy, and GRAHAM, A. H., "Structure and Mechanical Properties of Electroless Nickel," at the same meeting.
- "Electroforming—Uses, Materials, and Problems" before the Cleveland section of the Electrochemical Society, and at a meeting of the Niagara Falls, N. Y., section, also.
- ROWLANDS, R. O., Ordnance Research Laboratory, "FM Signals Tailored to Specific Sonar and Radar Requirements," at the West Coast Convention of the I.E.E.E., San Francisco.
- SHEARER, J. L., engineering, "Control Components—New Design Principles and Devices" at the Second Congress of the International Federation for Automatic Control, in Basel, Switzerland.
- SCHRADER, W. J., accounting, "New Approaches to Accounting Theory: The Need for Evolution," before the convention of the American Accounting Association at Stanford University.
- SMITH, W. S., theatre arts, "R. J. Campbell at City Temple," in the Sept. 18 issue of the Christian Century.
- TAYLOR, CLARICE C., hotel and institution administration, "The Use of Punched Card Data Processing to Plan and Control Food Usage and Cost," at the 46th annual meeting of the American Dietetic Association.
- VIATCH, JEANNETTE, education, "Conversation

... On Supreme Court Decision on Religion in Public Schools" in Instructor Magazine.

WRIGHT, J. M., hotany, "Immunogenetic Relationships of Trout," at the 11th International Genetics Congress at The Hague, Holland.

In the publication, "The Proceedings of the Fifth International Conference on Scientific Aspects of Mushroom Growing," articles by the following: L. R. KNEEBONE and W. H. ALLISON, "Influence of Compost pH and Casing Soil pH on Mushroom Production"; L. R. KNEEBONE and J. D. LOCKARD, "Investigation of the Metabolic Gases produced by Agaricus Bisporus (Lange) Sing"; L. R. KNEEBONE and E. C. MASON, "Mushroom Yields as Influenced by Degree of Maturity at Time of Harvest"; L. R. KNEEBONE, J. D. LOCKARD, and R. A. HAGER, "Infectivity Studies with X-Disease"; R. J. SNFTSINGER, "New Materials and Methods for the Control of Mushroom Pests"; F. J. MCARDLE and D. CURWEN, "Some Factors Influencing Shrinkage of Mushrooms during Processing."

LECTURES AND TALKS

- DELISSVOY, VLADIMIR, child development and family relationships, "Stay in School and Prepare for Marriage," as the keynote address for the regional conference of Future Homemakers of America at Middleburg High School.
- "What We Know About Teen-age Marriages," at Schoolmen's Week, at the University of Pennsylvania.
- GOLDBERG, STELLA, child development and family relationships, "New Horizons in Family Life Education" at a meeting of the Home Economics Teacher's Association, and "The Schenectady Family Life Education Program," at the same meeting.
- JORDAN, JOSEPH, chemistry, "Reference Materials for Solution Calorimetry," at the 18th Calorimetry Conference in Bartlesville, Okla.
- LANCASTER, O. E., engineering education, "Improvement in Engineering," at Oklahoma State University.
- MARIN, JOSEPH, engineering mechanics, on materials and design at an Institute on Mechanical Behavior at Wayne State University.
- MCDONALD, E. T., speech pathology, at the annual meeting of the special education personnel of the State of South Dakota.
- MURPHY, G. E., education, keynote speaker for the 1963 Rochester (N.Y.) Area Council, International Reading Association Conference.
- NIEBEL, B. W., industrial engineering, "New Product Design," at the Sept. 11 meeting of the Niagara Frontier Society of Industrial Engineers.
- OLIVIR, R. T., speech, "Diseases of Discourse in Today's America," at a Bloomsburg State College assembly.
- SHEARER, J. L., engineering, series of lectures on fluid control systems in Stockholm, Sweden, under sponsorship of Swedish Society of Engineers.
- WALMER, J. D., Ritenour Health Center, "Academic Banquet and the Appetite for Learning" at the In-Service Conference for Teachers at Lancaster.

CALENDAR



Friday, Oct. 18

Artists Series, program, 8:30 p.m., Schwab. (Also Saturday, Oct. 19). Lotte Lenya, on "Brecht on Brecht."

Sigma Xi lecture, 8 p.m., Mineral Industries Auditorium. Dr. Robert N. Colwell, University of California, on "Aerial Photography—A Valuable Sensor for the Scientist."

Talk by Francis G. Tatnall, Budd Company, on "The Philosophy of Movement," for the A.S.M.E., A.S.T.M.E., and A.S.M. joint meeting, 7:30 p.m.

Mineral Industries Colloquium, 3:55 p.m., Mineral Industries Auditorium. Dr. Ralph B. Baldwin, astronomer, physicist, and author, on "Face and Measure of the Moon."

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. Lawrence Grossman, Brandeis University, on "The Effect of Ultraviolet Radiation on the Coding Properties of Polynucleotides."

UCA Faculty Seminar, 12 noon, The Chapel. "The Renewal of the Church," with The Rev. Egbert Donovan, O.S.B., and The Rev. Richard E. Wentz.

Saturday, Oct. 19

Artists Series program, "Brecht on Brecht," with Lotte Lenya, 8:30 p.m., Schwab.

Sunday, Oct. 20

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Seth R. Brooks, Universalist National Memorial Church, Washington, D. C., on "Myself and One Other Person."

Hillel Graduate Association lecture, 8 p.m., Hillel Lounge. Dr. Nathan Schlessinger, University of Australia on leave as visiting fellow in philosophy at the University of Pittsburgh, on "Is It Useful to Argue About Religion?"

Monday, Oct. 21

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. H. Kirk Dansereau, on "Highway Impact Research: A Five-Year Review."

State College Color Slide Club, 7:30 p.m., Room 101 Chambers. Chauncey Lang, professor emeritus of agriculture extension.

Engineering Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Walter Jaunzemis, on "Fluids with Oriented Particles."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Robert S. Dietz, U. S. Coast and Geodetic Survey, on "Astroblemes and Cryoexplosion Structures."

Graduate School Lecture, 8 p.m., Mineral Industries Auditorium. Dr. Gardner Ackley, Council of Economic Advisers, on "United States Economic Growth: Is It Good Enough?"

Opening of exhibition of prints by Jun-ichiro Sekino, HUB Gallery. Reception, 7-9 p.m. in gallery.

Tuesday, Oct. 22

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. Gardner Ackley, Council of Economic Advisers, on "Economic Growth."

Open meeting of the American Association of University Professors, 8 p.m., Room 124 Sparks. Dr. Nelson McGeary, Dr. Nor-

man Pendered, and Dr. Arthur L. Williams, speakers.

Pavilion Theatre opening night, "The Brass Butterfly," by William Golding, 8 p.m. Continues through Oct. 26.

Wednesday, Oct. 23

Recital by Alard String Quartet, 8:30 p.m., Schwab Auditorium.

Demonstration of printmaking by Japanese artist, Jun-ichiro Sekino, 8 p.m., HUB Lounge.

Thursday, Oct. 24

Chemistry Colloquium, 12:15 p.m., Room 310 Whitmore. Professor W. H. Reinmuth, Columbia University, on "Modern Electro-analytical Techniques: Applications to Physical Organic Chemistry."

Friday, Oct. 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Claude A. Klein, Raytheon Co., on "Physics of Pyrolytic Graphite."

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. William Taylor, assistant professor of biophysics, on "Configuration of Macromolecules."

SERVICES OF WORSHIP

(All services in Helen Eakin Eisenhower Chapel except as noted.)

Roman Catholic—Monday through Saturday, 7 a.m. and 11:10 a.m.; Monday through Friday, 5:05 p.m. (except first Friday, 5:15 p.m.); Sunday, 7 a.m.; Sunday (in Hetzel Union Building), 9:15, 10:15, and 11:15 a.m.

Episcopal—Holy Communion, Monday and Thursday, 4 p.m.; Tuesday and Friday, 8 a.m.; Wednesday, 9 p.m.; Saturday, 9:30 a.m.

Methodist—Service of Worship, Sunday, 9 a.m.; Holy Communion, First Sunday of each month, 9 a.m.

Lutheran—Service, Sunday, 10 a.m.; Holy Communion, Sunday, 8 a.m.; Vespers, Wednesday, 6:30 p.m.

Reformed—Vespers in Reformed tradition, Thursday, 6:30 p.m.

State police

A program of college work for personnel of the Pennsylvania State Police has been initiated with classes in Sociology I, arranged through the Continuing Education Services, this term.

It is expected that classes will be held in Allentown-Bethlehem, Butler, Erie, Greensburg, Harrisburg, Hazleton, Hollidaysburg, Johnstown, Lancaster, Philadelphia, Punxsutawney, Reading, Scranton, Washington, Wilkes-Barre, and Williamsport.

The three-credit course, which will be concerned with social structure, basic human institutions, analysis of social processes, and major social forces, will serve as a starting point for additional courses.

Through a survey, it was discovered that more than 750 State policemen were interested in enrolling voluntarily in courses of study on the college level.

Scholarships, loans

WILLIS BRYANT

Mr. and Mrs. Willis Bryant, of State College, have provided for the first scholarship to be designated for a student in medicine. Until the Milton S. Hershey Medical Center has developed far enough in its program, the scholarship will go to a male or female student enrolled in the five-year medical program which is conducted in cooperation with Jefferson Medical College, Philadelphia. When the Hershey Center is operative, the scholarship will be provided to one who has completed requirements for the medical degree and is to take his residency in pediatrics at the Center. The Scholarship is a memorial to the deceased infant son of Mr. and Mrs. Bryant.

HRB-SINGER

A loan fund, titled the HRB-Singer Loan Fund, has been set up to aid able and needy students in scientific fields, including those in the Colleges of Science and Engineering, in either baccalaureate or associate degree programs. The Fund, which replaces a Walter N. Brown Memorial Graduate Student Fund, will provide loans with the usual provisions of University loan funds. The Director of Student Aid, in consultation with the dean of the student's college, will be responsible for administering the loans.

REA SCHOLARSHIP

The Pennsylvania Rural Electric Association has established a scholarship fund which will provide annually a \$375 scholarship for a student in agricultural education and a \$375 scholarship for a student in some other field in agriculture. Recipients must be from families served by one of the REA Cooperatives in Pennsylvania, must have and maintain an average of no less than 2.75, and be of good character. The scholarship may be renewed annually. Either freshmen or upper classmen are eligible.

NSF POSTDOCTORAL

Applications for the National Science Foundation Postdoctoral Fellowship Program will be accepted at the Fellowship Office, National Academy of Sciences-National Research Council, 2101 Constitution Ave., NW, Washington, D.C., 20418, until December 16.

About 185 awards will be made in the several science fields on the basis of ability as evidenced by letters of recommendation and other appropriate evidences of scientific competence.

A stipend of \$5,500 per year will be awarded to successful applicants under the program and dependency allowances will be provided to married Fellows.

Fellows may engage in scientific study and/or scientific work at appropriate nonprofit American or nonprofit institutions.

Application materials may be obtained from the Office noted above.

PERSONNEL —

(Continued from page five)

Henry J. Socoloski, as instructor in engineering. He has been self-employed as a registered architect and was a consulting architect for the E. I. DuPont de Nemours of Trenton, N. J. He received both bachelor's and master's degrees from Penn State and taught extension courses from 1942 to 1944.

Dr. Pericles S. Theocaris, as visiting professor of engineering mechanics. He has been professor and director of the Laboratory for Testing Materials at the National Technical University in Athens, Greece, and has also held visiting research positions at Illinois Institute of Technology and Brown University. The master's degree was conferred by the Athens Technical University, the doctor of applied science by the University of Brussels, and the doctor of science by the University of Paris.

Dr. Yechiel Weitsman, as assistant professor of engineering mechanics. He was a researcher at Columbia University before coming here and has also worked with the research branch of the Watervliet Arsenal and as a structural design engineer for the Public Works Department in Tel-Aviv, Israel. His degrees were conferred by the Technion in Haifa, Israel, the University of Connecticut, and Rensselaer Polytechnic Institute.

HEALTH AND PHYS. ED

John H. Doolittle, as instructor in physical education. He is former instructor of health and physical education at North Plainfield, N. J., High School. He is a graduate of Panzer College and is currently completing work on his master's degree at New York University.

Thomas W. Kelley, as instructor in physical education at the Altoona Campus. He is a former graduate assistant at Penn State and taught and coached at Cowanesque Joint High School, Westfield, Pa. He was graduated from Western Michigan University and received his master's degree from Penn State.

Alfred E. Leicester, as instructor in physical education. He was a graduate assistant until his appointment. He was graduated from Lock Haven State College.

Roger L. Sweeting, as instructor in physical education at the Behrend Campus. He has been a graduate assistant here. His bachelor's degree was conferred by Bowling Green State University and master of science by Penn State this year.

HOME ECONOMICS

Dr. William T. Brown, as associate professor of family housing and home art. He came to Penn State from the State University of New York at Oswego, where he taught art education and fine art. He has exhibited oil paintings at Penn State, including a one-man show in 1956, and has had shows at many other locales. He was graduated from Kutztown State College and received master's and doctor's degrees from Penn State.

Joseph J. Ciech, as instructor in hotel and institution administration. He was formerly with Stouffer Foods Corp. as executive assistant and manager of the restaurant unit in Philadelphia. He received the bachelor's degree in hotel administration from Penn State in 1958.

Norma J. Duff, as assistant professor of hotel and institution administration. She was dietitian and instructor of student nurses at Bryn Mawr Hospital for two years before her appointment here. She attended Juniata College and received a bachelor's degree from Penn State in 1954 and last March a master's degree.

Mrs. Bessie Brooks West, as visiting professor of hotel and institution administration. During the past year she was acting chairman of food service administration at the State University of New York at Cobleskill but for 28 years she was head of the department of institutional management at Kansas State University. She received both bachelor's and master's degrees from the University of California and an honorary master of education degree from Eastern Michigan State University.

LIBERAL ARTS

John W. Lerner, as instructor of history at the Altoona Campus. He was a graduate teaching assistant at the University of Alberta, Canada, before his appointment here. He was graduated from Rice University and was granted the master of arts degree in history by the University of Pittsburgh.

William E. Gibbs, as instructor of Journalism. A 1957 graduate of the University, he immediately established an advertising business in York, Pa., and in 1960 became vice president of the family-owned company of Gibbs, Sauters, and Gibbs, Inc.

Ivan L. Preston, as assistant professor of journalism. He was assistant instructor at Michigan State University for the past three years while working for his doctor's degree. He is a graduate of the College of Wooster.

ORDNANCE RESEARCH LAB

Richard G. King, as research associate. He has been project supervisor at The Johns Hopkins University Applied Physics Laboratory. He is a graduate of California Institute of Technology, in electrical engineering.

SCIENCE

David A. Breil, as instructor of botany at Mont Alto Campus. He has been instructor in botany at the University of Massachusetts, from which he obtained both bachelor of science in geology and master of science in botany degrees.

George Gratzner, as visiting assistant professor of mathematics. He has been a scientific worker for the Mathematical Research Institute of the Hungarian Academy of Science. He is a native of Budapest and received bachelor's and doctor's degrees in mathematics from Eotvos University there.

Dr. John Jagger, as visiting associate professor of biophysics. He has been biologist at the Oak Ridge National Laboratory since 1956. He received all three degrees from Yale University.

Robert T. McWade, Jr., as assistant professor of chemistry at the Wyomissing Center. He has served with Western Electric Co., Laureldale, Pa., and was a planning engineer. He is a Yale University graduate in engineering and was granted a master's degree in chemical engineering by M.I.T.

faculty BULLETIN

Vol. 51, No. 14 Oct. 18, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32



faculty BULLETIN

Weekly Publication
the Pennsylvania
State University

JGE special rate

The Journal of General Education, published by the University Press, is now available to faculty members and students at a subscription rate of \$2.50 per year or \$7.00 for three years.

Published quarterly, the Journal presents scholarly opinion in the fields of general and liberal education. It has gained international reputation and increasing attention from scholars in this country.

Among contributors to the October issue are Herbert Weisinger, chairman of the Comparative Literature Program at Michigan State; Dorothy Roberts, poet; and Frederick J. Hoffman, chairman of the English department at the University of California at Riverside.

Dr. Ben Euwema is the editor, Carol Sams is assistant editor, and J. Mitchell Morse is book review editor.

Library exhibit

An exhibit with the United Nations theme was opened this week in the Pattee Library exhibition area and will continue until Nov. 15.

Included in the exhibit, which was arranged by the late Louisa E. McDivitt, is a fine display of dolls dressed in costumes of member nations of the U. N., a facsimile of the U.N. charter, U.N. stamps, flags of member nations, and publications.

Dr. Ernest L. Bergman, associate professor of plant nutrition, loaned the stamp collection; dolls were loaned by Mrs. Grant Smith, Mrs. Robert Swope, Mrs. Maurice Mook, and Jan and Judy McDivitt.

Haag winner

"Jonah," a poem by John Haag, assistant professor of English, has been awarded second prize in the Borestone Mountain Poetry Award Competition. The prize consists of a \$200 cash award and publication in "Best Poems of 1962."

The Committee surveyed all poetry published during 1962 in over 200 publications from England, America, Australia, New Zealand, South Africa, Ireland, and other English-speaking countries. From several thousand poems they selected approximately 80 for inclusion in the award volume. From these, three were selected for top awards.

Haag's poem, which is a sea imagery, stemmed from his seven years' experience as a sailor, as a merchant seaman in World War II and with the Navy during the Korean War. During his undergraduate days at the University of Washington, he received the Academy of American Poets Award.

Jean Burden was winner of the first prize and Derek Mahon, Irish poet, was third prize winner.

Rindone award

Dr. Guy C. Rindone, associate professor of ceramic technology, has received the Frank Forest Award from the American Glass Research, Inc., as one of two authors to produce the outstanding papers on glass technology during the past two years.

The award, consisting of a citation and \$100, was presented to him during the annual fall meeting of the Glass Division of the American Ceramic Society at Bedford Springs.

He received the award for papers appearing for the past two years in the Journal of the American Ceramic Society. The award was established in 1948 in memory of a young glass scientist killed in World War II.

Deike named

George H. Deike, Jr., vice president and secretary of the Mine Safety Appliances Co., of Pittsburgh, has been appointed to the Board of Trustees by Roger W. Rowland, president, to succeed his late father who died July 16.

The new trustee is a graduate of Penn State in 1931, with a bachelor of science degree in mining engineering. He received the degree of Engineer of Mines in 1948. Since his graduation he has been affiliated with the Mine Safety Appliance Co., which his father helped organize.

GSA projects

Bids were received Oct. 16 by the General State Authority for construction of the new Earth Sciences Building. Total of the lowest bidders was \$2,791,297, within the allocation for the building. Awarding of the contracts is expected to be completed in the near future. Lowest bidder for the general construction was William Green Construction Co., Huntingdon, L. I.

The Authority has also announced that it will receive proposals Nov. 20 for construction of the Extension Conference Center, to be built east of the Nittany Lion Inn. The building will have a basement and five upper floors with a one-story meeting room adjoining. The main building will be 102 by 108 feet and the meeting room 80 by 97 feet.

The lobby of the building will have an exhibit area which can be isolated by folding partitions. A multi-purpose dining and meeting room will be located on the basement, or ground, floor. Class or meeting rooms of various sizes will occupy the first floor, the main meeting room seating 384 persons and containing a stage. The second, third, and half of the fourth floors will accommodate classes or meetings in rooms of various sizes. A television control center will be located on the second floor. Half of the fourth and all of the fifth floors will contain offices for Continuing Education and the Conference Center.

Russian talks

Two talks will be given today (Friday) by Dr. Oswald P. Backus, director of Slavic and Soviet Area Studies at the University of Kansas.

At 4 p.m. in Room 111 Boucke he will speak on "Book Buying in the Soviet Union," sponsored by the Russian Area Committee and the University Library.

At 7:30 p.m. in the Lounge of the Helen Eakin Eisenhower Chapel he will discuss "Folklore and Russian History," sponsored by the Russian Area Committee and the History Round Table.

Dr. Backus is the translator of Sigismund Herberstein's "Commentaries on Muscovite Affairs" and author of a book and a dozen articles on medieval Russian religion, law, culture, politics, and historiography. Among librarians he is known for arranging book exchanges between the Soviet Academy of Sciences, the Moscow University Library and the public libraries in Moscow and Leningrad and American university libraries.

CALENDAR



Friday, Oct. 25

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Claude A. Klein, Raytheon Co., on "Physics of Pyrolytic Graphite."

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. William Taylor, on "Configuration of Macromolecules."

Talks by Dr. Oswald P. Backus, director of Slavic and Soviet Area Studies, University of Kansas, 4 p.m., Room 111 Boucke, on "Book Buying in the Soviet Union"; at 7:30 p.m., Lounge, The Chapel, on "Folklore and Russian History."

Pavilion Theatre production of "The Brass Butterfly," by William Golding, Warren Smith directing. Curtain, 8:30. Concludes Saturday.

Interlandia folk dances, 7:30 p.m., Room 302 Engineering "A." Admission free, beginners welcome, dances will be taught.

Saturday, Oct. 26

Football, vs. West Virginia, 1:30 p.m., Beaver Stadium.

CIRC director

Robert G. Snider, former vice-president for development of the Graduate Research Center of the Southwest in Dallas, Texas, has assumed the position of executive director of the Commonwealth Industrial Research Corporation.

The Corporation has been organized by the Commonwealth and the University to stimulate industrial research and development and technologically-oriented manufacturing in the Central Pennsylvania area. One of the first objectives of the CIRC will be to attract new research-based industries into the area near the Uni-

Pavilion Theatre production of "The Brass Butterfly," curtain time 8:30 p.m. Concluding performance.

Sunday, Oct. 27

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. F. Bruce Morgan, Amherst College, on "What Gives with This Man Stuff."

Concert by George E. Ceiga, University organist, with guest brass section, 4 p.m., Schwab Auditorium.

University Lecture Series, R. Buckminster Fuller, engineer and architect, on "Closing the Gap between Sciences and Humanities," 8:30 p.m., Schwab Auditorium.

Monday, Oct. 28

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Seymour Calvert, director of Air Environment Center, on "Penn State's Center for Air Environment Studies."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics Irene E. Harms, on "Home Management Houses: Student Use of Time; Development of Babies."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. William C. Fortman, Hercules Powder Co., on "The Role

versity, including Quehanna.

Since 1958, Mr. Snider has served as president of International Population Research, Inc., a non-profit research organization for sociological research and from 1959 to this year was coordinator of the International Indian Ocean Expedition, a 21-nation, 40-vessel oceanographic and meteorological research study.

He was graduated from Harvard College in 1932, with a bachelor's degree in anthropology, received a master of business administration degree, also from Harvard, and did graduate work in economics and management at Columbia School of Business, 1935-40.

of Relaxation Processes in the Attenuation of Transverse Waves."

Thursday, Oct. 31

Chemistry Colloquium, 12:45 p.m., Room 302 Whitmore. Dr. S. H. Sauer, Cornell University, on "The Rates of Homogeneous Isotope Exchange Reactions at High Temperatures as Studied in Shock Tubes."

American Statistical Association meeting, 8 a.m., Room 212 McAllister. Dr. William L. Harkness, on "Contagious Processes."

Accounting Faculty Seminar, 1:15 p.m., Room 211 Boucke. Dr. Carman G. Blough, distinguished visiting professor of accounting, on "Asset Valuations for Financial Reporting."

Friday, Nov. 1

Song recital by Raymond Brown, associate professor of music, 8:30 p.m., Schwab Auditorium, with Alard Quartet and Barry Brinsmaid.

Biophysics Seminar, 4 p.m., Room 105 Walker. Dr. Charles Thomas, The Johns Hopkins University, on "The Structure and Arrangement of the Nucleotide Sequence in DNA Molecules of T-1 and T-5 Bacteriophage."

Interlandia folk dances, 7:30 p.m., Room 302 Engineering "A."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. William Nordberg, Goddard Air Space Center, NASA, on "Sounding of the Atmosphere with Rockets and Satellites."

Lomax to speak

Louis Lomax, author of "The Negro Revolt" and "The Reluctant African," will speak at Hillel Foundation Sunday, Nov. 3, at 8 p.m. The lecture is sponsored by the Hillel Graduate Student Association and is open to the public. Admission will be 75 cents for Hillel Members and \$1.25 for non-members, the proceeds to go to NAACP, CORE, and ADL.

Lomax will speak on "The Future of the Negro Revolution."

faculty BULLETIN

Vol. 51, No. 15 Oct. 25, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**



The Upper Merion Township School Board has leased to the University this 24-classroom junior high school building for use as a Graduate Center for the Southeastern Pennsylvania area. The building is near the Pennsylvania Turnpike and Schuylkill Expressway, convenient to many engineers and scientists who would be served by the new Center.

At King of Prussia

Graduate Center approved

A CENTER for graduate education will open formally at King of Prussia, in Upper Merion Township, with the beginning of the Winter Term Jan. 9, President Walker announced this week.

Designed to meet the education needs of engineers and scientists in Southeastern Pennsylvania, the Center will be the University's first full-fledged resident graduate program away from the University Park campus and presages opening of comparable programs in Harrisburg and other areas of the Commonwealth as the need develops.

Dr. A. Witt Hutchison, who has been appointed director of the new King of Prussia Graduate Center, has been a member of the faculty since 1931, becoming a full professor in 1949. He served as acting head of the department of chemistry in 1955-56 and 1956-57 and from 1958 to 1960 was associate head. During World War II he was supervisor of chemistry for the University in emergency defense training and war training programs.



A graduate of Dickinson College in 1925, Dr. Hutchison received master's (1928) and doctor's (1931) degrees from Penn State.

While on leave in 1961-62, he served with the National Academy of Science-National Research Council as assistant to the director of the Office of Scientific Personnel, being associated with the fellowship program of the International Atomic Energy Agency and with the Academy's Visiting Research Scientists' Program.

Dr. Hutchison's research has been principally in the field of electrolyte solutions and his teaching in the area of physical and general chemistry.

Dr. A. Witt Hutchison, professor of chemistry, has been named director of the King of Prussia Center and assistant dean of the Graduate School. The permanent faculty will include a full-time resident faculty and adjunct professors who will teach in their special fields on a part-time basis.

The Board of School Directors of Upper Merion Township have made available to the University, on a lease basis, the Township Junior High School Building to serve as a home for the Center. The 24-classroom building is located near the Pennsylvania Turnpike Valley Forge intersection with the Schuylkill Expressway. The area is developing as one of the most vital research and development centers in the country. The School Board will retain title to the building and may re-occupy the building if its own educational program requires its use.

The University made the decision to open the Center after a detailed study of the educational needs of engineers and scientists in the area revealed that many wanted to improve their professional competence through graduate education on an in-service basis. Industrial leaders of the area have urged the establishment of a center as a means of meeting these needs.

(Continued on page six)

Faculty poll

A randomly-selected sample of the faculty, approximately 20 per cent, will be asked in about two weeks to aid the program planning committee of the conference of deans and department heads, to be held in late January; by suggesting topics for discussions at the conference.

The University Division of Instructional Services will conduct the poll, which will ask faculty members, anonymously, to list the "three major changes you think should be made to improve your department, your college, or the University." It will be an open-end question and will permit the faculty member to express ideas on major or small problems he thinks should be considered at the conference. Either policy or procedural matters will be considered.

From analysis of the questionnaire replies, which the committee hopes will number about 400, it is hoped that a really significant meaning can be given to discussion at the January conference.

In addition to the faculty members, all department heads will also be polled, as will Commonwealth Campus directors and faculty members.

The Committee hopes to complete the analysis of the replies by the end of the Fall Term.

General theme of the conference discussions will be "Academic Administration: Folklore and Reality."

In addition to the specific request for discussion topics, the planning committee will ask several other questions which may add to the significance of the discussions.

THE ARTS



artists series

Tickets for the Artists Series performance by the Moscow Chamber Orchestra will go on sale Monday, Nov. 4 at the HUB desk at 9 a.m. and continue on sale, if any remain, the next day.

The performance of the Orchestra Wednesday, Nov. 6, at 8:30 p.m. in Schwab Auditorium will include Mozart's Symphony No. 29 in A Major; Bartok's "Divertimento in F Major"; Prokofieff's "Visions Fugitives"; and Vivaldi's Concerto in B Minor for Four Violins.

The Orchestra, in this country for an eight-week tour, was founded in 1955 as a private musical group whose members were eager to play the repertory not often performed in regular concert series. Often the members would come together in the evenings and play late at night when they were free from their work in opera or symphony orchestras and in the music schools.

Rudolf Barshai, an outstanding violist, has headed the orchestra since its inception. The core of the orchestra is the permanent group of fourteen string players, all graduates of Moscow Conservatory. For special works the core group is augmented by other instruments. The only woman is a cellist.

alard quartet

The second recital by the Alard String Quartet will be given Sunday, Nov. 10, at 3 p.m. in Schwab Auditorium.

art conference

The Fourth Annual Conference of College Art Educators of Pennsylvania, on the theme, "Aesthetics and Man: Present and Future," will be held today (Friday) and tomorrow, with sessions in the Hetzel Union Building and Chambers Building.

Penn State faculty members to participate include the following:

Edwin W. Zoller, professor emeritus of art, in a discussion of "Teaching and Receptivity to Art Appreciation," Friday, 1:30 p.m., 212 HUB.

Dr. Henry A. Finch, professor of philosophy, lecture on "The Function of the Artist in a Scientific Age," Friday, 3:30 p.m., HUB assembly room.

Frank S. Neusbaum, professor of theatre arts, commentator for show-

ing of film examples of "Film as an Art Form," 7:30 p.m., 112 Chambers.

John Cataldo, professor of art education, and Gregory Ain, head of the department of architecture, in discussion of "Value Judgments in Art," Saturday, 10:45 a.m., 214 HUB.

Paul Edmonston, associate professor of art education, and John Mahlman, graduate assistant, in discussion of "Studio Learning," 10:45 a.m. Saturday, 216 HUB.

Dr. Albert G. Tsugawa, associate professor of philosophy, discussion of "Art in a Cultural Climate," 1:30 p.m., Saturday, 228 Chambers.

Robert C. Burkhart, research associate in art education, and Winston R. Weisman, chairman of the department of art history, in discussion on "Man's Aesthetic Responsibilities in Responding," 1:30 p.m., Saturday, 230 Chambers.

Kenneth R. Beittel, professor of art education, and Harold Altman, associate professor of art, in discussion of "Portrait of Aesthetics: Art and Man," 2:45 p.m., 112 Chambers.

Keynote speaker for the Conference will be Miss Dore Ashton, noted art critic, speaking on the subject, "Conflicting Critical Attitudes," Saturday at 9:30 a.m. in the HUB assembly room.

Miss Ashton is the former art critic of the New York Times and of Arts and Architecture. She is now on the Pratt Institute faculty.

CITED

Dr. Rose M. Cologne, professor and chairman of the division of home-community relationships in the College of Home Economics, received a Citation of Merit from the Pennsylvania Adult Education Association recently, "for distinguished and outstanding accomplishments and services in the field of adult education in the Commonwealth of Pennsylvania."

LUNCHEON CLUB

The Faculty Luncheon Club will be addressed by Dr. Samuel S. Dubin, associate professor of psychology in Continuing Education Monday at 12:30 p.m. in the HUB dining room "A." He will talk about the needs of continuing education programs for engineers and scientists in industry.

LOAN FUND

A new loan fund, to honor the late Dr. Lawrence L. Huber, has been established by his friends and by the Pennsylvania Crop Improvement Association. He was a member of the agronomy department faculty from 1943 to 1958 and was credited with the development of many of the corn hybrids now in use in the State. The fund will be used to aid worthy and needy students in the College of Agriculture, and in particular those in agronomy.

CALENDAR



Friday, Nov. 1

Song recital by Raymond Brown, associate professor of music, 8:30 p.m., Schwab Auditorium, with Alard Quartet and Barry Brinsmaid.

Biophysics Seminar, 4 p.m., Room 105 Walker. Dr. Charles Thomas, The Johns Hopkins University, on "The Structure and Arrangement of the Nucleotide Sequence in DNA Molecules of T-1 and T-5 Bacteriophage."

Interlandia folk dances, 7:30 p.m., Room 302 Engineering "A."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. William Nordberg, Goddard Air Space Center, NASA, on "Sounding of the Atmosphere with Rockets and Satellites."

Conference on "Aesthetics and Man: Present and Future," beginning at 1:30 p.m., concluding Saturday. Sessions in HUB and Chambers Building.

Meteorology Seminar, 2:15 p.m., Mineral Industries Auditorium. Dr. William Nordberg, N.A.S.A., on "Meteorological Satellites."

Saturday, Nov. 2

Athletics: P.I.A.A. cross country championships, golf course; varsity cross country vs. Syracuse and Georgetown, 1 p.m.; varsity soccer, Temple, 2 p.m.

Sunday, Nov. 3

University Chapel Services, 10:55 a.m., Schwab Auditorium. Dr. James M. Gustafson, department of social ethics, Yale University Divinity School, "The Persistent Pursuit of God."

Hillel Foundation Graduate Student Association lecture by author Louis Lomax, 8 p.m., on "The Future of the Negro Revolution."

Monday, Nov. 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Samuel S. Dubin, associate professor of psychology in Continuing Education, on "A Study for Continuing Professional Education versus Obsolescence: A Study of Education Needs of Engineers."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Prof. J. P. Duncan, University of Sheffield, England, on "The Development of a Technique for Recording Curvature Contours in Flexed Elastic Plates."

Tuesday, Nov. 5

Electrical Engineering Colloquium, 4 p.m., Room 219 Electrical Engineering. Dr. E. R. Schmerling, associate professor of electrical engineering, on "Space Research."

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." J. Herbert Furth, Board of Governors, Federal Reserve System, on "Problems of International Payment Reform."

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Plant Pathology lecture, 8 p.m., Room 220 Buckhout. Dr. L. R. Krusberg, Univ. of Maryland, on "Studies on the Physiology and Culturing of Plant-Parasitic Nematodes."

Artists Series program by the Moscow Chamber Orchestra, 8:30 p.m., Schwab Auditorium.

Plant Pathology Seminar, 3:55 p.m., Room 220 Buckhout. Dr. L. R. Krusberg, University of Maryland, on "Investigations of *Ditylenchus dipsaci* and its Host-parasite Relationships in Alfalfa Tissue."

Thursday, Nov. 7

Phi Lambda Upsilon lecture, 7:30 p.m., Room 214 Boucke. Dr. Frederick Matson, assistant dean for research, on "Technological Studies in the Field of Archaeology."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Paul W. Gilles, University of Kansas, on "High Temperature Chemistry."

Accounting Faculty Seminar, 1:15 p.m., Room 211 Boucke. Dr. Carman G. Blough, distinguished visiting professor of accounting, on "Accounting for Pensions and Deferred Compensation."

Talk by author Sidney Lens, on "A World in Revolution," 8 p.m., Room 121 Sparks, sponsored by U.G.A., State College Friends Meeting Peace and Social Order Committee, William Penn Foundation, and SENSE.

American Statistical Association meeting, 8 a.m., Room 212 McAllister. Dr. W. L. Harkness, on contagious processes.

Friday, Nov. 8

Physics Colloquium 4:15 p.m., Room 117 Osmond. Prof. H. L. Welsh, F.R.S., chairman of the physics department, University of Toronto, on "Recent Work on Pressure-Induced Infrared Absorption."

Mineral Industries Colloquium, 3:15 p.m., Mineral Industries Auditorium. Dr. Paul Vavorsky, group leader, Radiochemistry, Consolidation Coal Co., on "Beta Radiation Processing at Rigorous Conditions."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

SERVICES OF WORSHIP

(All services in Helen Eakin Eisenhower Chapel except as noted.)

Roman Catholic—Monday through Saturday, 7 a.m. and 11:10 a.m.; Monday through Friday, 5:05 p.m. (except first Friday, 5:15 p.m.); Sunday, 7 a.m.; Sunday (in Hetzel Union Building), 9:15, 10:15, and 11:15 a.m.

Episcopal—Holy Communion, Monday and Thursday, 4 p.m.; Tuesday and Friday, 8 a.m.; Wednesday, 9 p.m.; Saturday, 9:30 a.m.

Methodist—Service of Worship, Sunday, 9 a.m.; Holy Communion, First Sunday of each month, 9 a.m.

Lutheran—Service, Sunday, 10 a.m.; Holy Communion, Sunday, 8 a.m.; Vespers, Wednesday, 6:30 p.m.

Reformed—Vespers in Reformed tradition, Thursday, 6:30 p.m.

Archaeology lecture

Dr. Frederick R. Matson, assistant dean for research of the College of the Liberal Arts, will speak on "Technological Studies in the Field of Archaeology," before Phi Lambda Upsilon, honorary chemical society Thursday, Nov. 7, at 7:30 p.m. in Room 214 Boucke.

GRANTS



Siegenthaler, B. M., special education, \$9,000, Penna. Dept. of Health, for support of audiologic services to children by the Speech and Hearing Clinic.

Bernheim, Robert, chemistry, \$12,323, U.S. Public Health Service, for research on spin-spin coupling in nuclear magnetic resonance. Hisatsune, I. C., chemistry, \$8,365, U. S. Bureau of State Services, for studies of structures of oxides of nitrogen.

Anthony, Adam, zoology, and Strother, G. K., physics, \$17,004, U. S. Public Health Service, for biophysical and endocrine changes in acclimated rats.

Marshall, H. S., agronomy, \$25, H. Rockwell and Son, Inc., for buckwheat research; also \$400, Cooperative GLF, Inc., \$850, Quaker Oats Co., \$850, Harris Milling Co., for same purpose.

Barr, W. L., agricultural economics, \$2,500, Eastern Milk Producers Cooperative Association, Inc., for dairy adjustment study.

Hunter, A. S., agronomy, \$500, Cooperative GLF, for study of fertilizer needs of the major annual field crops of Pennsylvania.

Krawiec, J. F., clothing and textiles, \$16,630, Pennsylvania Office of Administration, Governor's Office, for Institutional Laundry Services Program.

Spackman, William, geology, \$2,000, Pan American Petroleum Corporation, for catalog of fossil spores and pollen. Also \$2,000, Shell Development Co., \$1,500 from Socony Mobil Oil Co., Inc., for same purpose.

Rindone, G. E., metallurgy, \$800, Jones and Laughlin Steel Corp., for cooperative program in metallurgy.

Thurber, C. E., political science, \$25,000, The Ford Foundation, for self-study University might play in international field.

MacKenzie, Ossian, Business Administration, \$2,000, Haskins and Sells Foundation, Inc., for faculty assistance grant for accounting instructors.

Pasto, J. K., agricultural economics, \$6,000, U. S. Dept. of Agriculture, for market analysis of the processing and marketing of apple syrup.

Kenney, P. C. and Patton, Stuart, dairy science, \$7,200, The Chocolate Manufacturers Association of the U.S.A., for chocolate flavor studies in dairy products.

Matecki, R. P., agronomy, \$68,350, Penna. Dept. of Agriculture, for soils characterization laboratory.

Bergman, E. L., horticulture, \$200, American Cyanamid Co., for tomato fertilization project.

Warren, J. M., psychology, \$74,618, U. S. Public Health Service, for studies of functions of association cortex in learning by cats and monkeys.

Wartik, Thomas, chemistry, \$4,000, Sun Oil Co., for fellowship.

Fischer, F. B., Continuing Education, \$2,000, Western Electric Co., Inc., for engineering training services for a short course in elements of automatic manufacture.

neering training services for a short course in elements of automatic manufacture.

C. F. Hager, C.C.L.E., \$21,400, International Business Machines, for conferences on "Technology on Human Values" and "Work, Leisure, and Education in a Changing Industrialized Democracy."

R. J. Flipse, dairy science, \$7,000, U. S. Atomic Energy Commission, for studies of pathways of metabolism in bovine germ cells.

William Spackman and R. R. Dutcher, geology and geophysics, \$31,000, Bethlehem Steel Co., for studies of reduction of sulfur in metallurgical coals.

Paul Grun, botany, \$7,000, National Science Foundation, for studies of salomun.

Maurice Shamma, chemistry, \$27,600, National Science Foundation, for research on nitrogen heterocycles.

Joseph Jordan, chemistry, \$14,000 U. S. Public Health Service, for research on voltammetry of oxygen and carbon dioxide.

A. L. Peastrel, psychology, \$10,526, U. S. Public Health Service, for studies of semantic and phonetic determinants of generalization.

Herschel Leibowitz, psychology, \$17,298, U. S. Public Health Service, for analytic studies of visual perception.

K. O. Stephenson, agricultural engineering, \$840, Gering Plastics Co., for development of equipment for fruit and vegetable mechanization.

P. S. Skell, chemistry, \$60,405, U. S. Office of Aerospace Research, for studies of the chemical properties of labile species.

H. J. Read, metallurgy, \$7,800, International Copper Research Assoc., for studies of the properties of copper electrodeposits from fused salts.

J. R. Rackley, Resident Instruction, \$56,430, U. S. Dept. of the Navy, for training of Navy and Marine Corps enlisted men in the Enlisted Scientific Education program.

Hans Panofsky, meteorology, \$6,191, U. S. Weather Bureau, for studies of clear-air turbulence.

G. W. Brindley, ceramic technology, \$31,600, National Science Foundation, for research on solid state reactions of oxide materials.

Floyd Fischer, (Continuing Education, \$5,460, Frankford Arsenal, for training program in executive development.)

H. H. Calvit, engineering mechanics, \$9,952, U. S. Army, for development of a model describing the structural dynamics of the human body.

I. C. Hisatsune, chemistry, \$30,000, U. S. Air Force Systems Command, for studies of infrared spectra of nitrogen oxides.

Norman Deno, chemistry, \$22,000, U. S. Army Biological Laboratories, on "Propiolactone."

A. E. Woodward, physics, \$20,200, Atomic Energy Commission, "Effect of Radiation on Dynamic Properties of High Polymers."

W. E. Meyer, mechanical engineering, \$46,100, Penna. Dept. of Highways, for joint road friction program.

PERSONNEL MATTERS



APPOINTMENTS

Dr. Thomas F. Bates has been appointed director of the Institute for Science and Engineering and will continue also as professor of mineralogy and as assistant to the vice president for research. The Institute, organized within the Office of the Vice President for Research, coordinates and facilitates the work of interdisciplinary research groups. Dr. Bates joined the faculty in 1912 as instructor in mineralogy.

Harvey S. Piper, Jr., member of the technical staff of Bell Telephone Laboratories since 1960, has been named research assistant at the Ordnance Research Laboratory. He is a Penn State graduate and received the master of science degree in electrical engineering from New York University.

H. Lawrence McKague, graduate of Franklin and Marshall College with a master of science degree in geology from Washington State University, has been named research assistant in Mineral Industries. He has been a graduate student here since 1960.

Dr. John D. Loerch has been named assistant professor of agricultural and biological chemistry. He has been research associate in biochemistry since 1962. He was graduated from Michigan State University and received his doctor's degree in chemistry from the same institution.

Dr. Clyde S. Card, veterinarian from North Clarendon, Vt., has been named research assistant in veterinary science. He is a graduate of the University of Maine, and received master of science and doctor of veterinary medicine degrees from Cornell University.

Samuel Gordon, a 1961 graduate in music education, has been appointed as an assistant for direction of the Chapel Choirs and will work with the Meditation Chapel Choirs, replacing James Beach, on leave for the academic year. Father Nathaniel May has also been appointed assistant and will direct a Meditation Chapel Choir specializing in Roman Catholic liturgical music. His emphasis in liturgical music will be in Renaissance and contemporary works, with some use of Gregorian chant.

Revolution talk

Sidney Lens, author of "A World in Revolution" and other books on the subject of the changes taking place in the world, will lecture Thursday, Nov. 7, at 8 p.m. in Room 121 Sparks under the sponsorship of the University Christian Association, State College Friends Meeting Peace and Social Order Committee, William Penn Foundation, and SENSE.

The lecture will be based on his travels and observation in Africa and Asia. Among his books is "Africa, Awakening Giant" (1962)

Television

An engineering report submitted to the Federal Communications Commission as the basis for the University's application for the allocation of VHF Channel 3 for education broadcasting indicates that more than a half million homes and school systems of 22 Central Pennsylvania counties would be served by the station.

In the broadcast area are the counties of Armstrong, Bedford, Blair, Cambria, Cameron, Centre, Clarion, Clearfield, Clinton, Elk, Forest, Huntingdon, Indiana, Jefferson, Juniata, Lycoming, McKean, Mifflin, Potter, Snyder, Union, and Warren.

The transmitter for the proposed station would be located seven miles north of Clearfield, with studios on the campus, and the two would be linked by a two-stage microwave relay. The transmitter tower, which would be 185 feet tall and the antenna 268 feet above ground would be at an elevation of 2175 feet above sea level.

The facility would provide Grade A reception within a radius of 25 to 40 miles of the transmitter and Grade B reception up to 55 to 75 miles.

Commendation medal

Captain Frank M. Schoendorfer, assistant professor of military science at the Ogontz Campus, was given the Army Commendation Medal at special ceremonies on the campus Oct. 25.

The medal was granted for Capt. Schoendorfer's outstanding work as Advisor of Psychological Warfare and Civil Affairs to the First Vietnamese Infantry Division in the Vietnam provincial capital at Hue.

He is a native of Jersey Shore, was graduated from Valley Forge Military Academy and the University of Pennsylvania. He has served in Germany and Lebanon in addition to Vietnam.

Social ethics

The Faculty Committee of the University Christian Association is sponsor of a lecture by James M. Gustafson, associate professor of social ethics at Yale University Divinity School tomorrow (Saturday) at 8 p.m. in Room 101 Chambers.

He will speak on the subject, "New Accents in Social Ethics."

Author of the sociological study of the church entitled, "Treasure in Earthen Vessels," Dr. Gustafson was assistant director of a study in 1954-55 of American theological education.

Mont Alto

H. A. Kottcamp, president of the H. A. Kottcamp Construction Co. and an active figure for many years in the business and civic life of Franklin County, has been elected chairman of the Advisory Board of the Mont Alto Campus, newest of the Commonwealth Campuses.

Chester E. Adams, bank president in Waynesboro, was elected vice chairman of the Board; Attorney George C. Eppinger of Chambersburg treasurer; and Henry Chisman director of the Campus, secretary.

Other Board members include the Mont Alto mayor, the vice president of an industrial firm, the editor of a Chambersburg paper, and the president and publisher of the Waynesboro paper.

The program at Mont Alto includes a two-year forest technology program, in which 50 young men have enrolled for the Fall Term, two-year programs in drafting and design and surveying technology, and the freshman year of the four-year baccalaureate programs.

Murray named

Dr. Robert K. Murray, head of the department of history, has been appointed a permanent consultant to the American Council of Education Conference on Expanding Opportunities for Negroes in Higher Education.

He will serve as consultant on matters relating to Negro Land-Grant educational expansion and act as advisor to the ACE staff.

A conference of 40 prominent educators was held recently in Washington to discuss expanding opportunities for Negroes in higher education, Dr. Murray among them.

The group was called together as a result of President Kennedy's spring meetings with educators on the same subject. The Conference was assigned the responsibility for formulating action plans to stimulate Negro education in this country.

President Fred H. Harrington, of the University of Wisconsin, chaired the conference, attended also by presidents of 15 of the largest Negro colleges and universities.

The conference was concerned with reducing the high rate of dropouts in Negro higher education, upgrading of existing Negro colleges and universities, encouraging more scholarship aid for qualified Negroes in predominantly white universities, and with the aiding by foundations of more Negroes in graduate schools.

ITEMS OF INTEREST —

(Continued from page five)

- CAMPBELL, W. P., music education, "Developing Music Education Course Guides for the Elementary Grades," before the Somerset County Institute Nov. 4.
- CATALDO, J. W., art education, "Role of the Designer—Craftsman in Technocracy, Education, and Research," before the graduating seniors of the Industrial Design Department of the Philadelphia Museum College of Art.
- FRICK, J. V., clinical speech, "Parent Counseling," before the annual convention of the Maryland State Teachers Association at Baltimore.
- GOODWIN, H. E., journalism, "The Press and Public Affairs" before the newspaper workshop sponsored by the Harrisburg *Patriot and Evening News*.
- "Interesting Journalism Students in Newspapers," at the annual convention of the Pennsylvania Newspaper Publishers' Association in Harrisburg.
- GREENHILL, L. P., UDIS, "The Economics of Instructional Television," and "Student Responses and Instructional Television" at the Fourth Armed Forces Television Conference, Denver, Colo.
- HARRIS, D. B., psychology, "The Adolescent in the 1960's" and "The Adolescent and the World of Work" at the North Carolina Family Life Council in Winston-Salem, N. C.
- "The Use of Developmental Psychology by School Psychologists," at George Peabody College for Teachers in Nashville, Tenn.
- KELLEY, E. J., business administration, "Retail Concentration and Expansion" at the Boston Conference on Distribution.
- "Marketing Concept and Market Planning," at the Management Development Program at Northeastern University.
- KILZ, J. S., Counseling in Education, "What's New in Counseling," at the Pennsylvania State Education Association Regional Meetings, Oct. 3.
- KNEEBONE, L. R., botany and plant pathology, lecture tour in California, Oregon,

Washington, Ontario, West Virginia and in Pennsylvania on various aspects of the mushroom industry.

KNOLL, MARJORIE M., family economics and home management, "A Conceptual Framework for Home Management," before the fall meeting of the Maryland Home Economics Association.

MASTALERZ, J. W., horticulture, "Leaf Analysis—Fertilization Guide for the Future," at the fall meeting of the Massachusetts Flower Growers Association at the University of Massachusetts.

MINDER, T. L., engineering library, "Automation of the Acquisitions Operations of The Pennsylvania State University Library," before the American Documentation Institute.

— a symposium and panel on "Publications of Mathematical Literature" for the Society for Industrial and Applied Mathematics, Oct. 29 at Columbia University.

OLIVER, R. T., speech, "The Speech Profession: Opportunities and Challenges," at the Ohio Conference for Speech Education, Oct. 5.

— "Dimensions in the Teaching of Speech," at the meeting of the Indiana Speech Association, Oct. 25.

ROY, RUSTUM, Materials Research Laboratory, "Crystal Chemical Contributions to Solid State Science," as part of the 10th annual lecture series sponsored by the American Chemical Society, at St. John Fisher College, Rochester, N. Y.

SKELL, P. S., chemistry, "The Chemistry of C₃ and Other Molecular Carbon Species," at Cornell University and at the University of Pennsylvania.

TAYLOR, CLARICE G., hotel and institution administration, "Application of Research Findings to Institutional Food Service," at the Eighth Annual Farm and Food Conference, in Maryland.

WYLLIE, P. J., geochemistry and mineralogy, "Experimental Data Bearing on the Origin of Carbonatites and Associated Alkaline Rocks," in the Geology Lecture Series at Yale University, Oct. 21.

GRADUATE —

(Continued from page one)

ing their needs for highly trained engineers and scientists.

John K. Tabor, Pennsylvania's Secretary of Commerce, said the new graduate center could be expected to contribute significantly to the industrial development of the State. He also said that the establishment of such graduate centers is essential for the continued expansion of space-related industry.

Among the companies already established in the Southeastern Pennsylvania area covered by the study were: Vertol Division, Boeing Co.; General Electric Missile Space Division; Leeds and Northrup; Lukens Steel Co.; Minneapolis-Honeywell; the Naval Air Development Center; the Lansdale Tube Division of Philco Corp.; SKF Industries; Naval Air Engineering Center; and Wyeth Laboratories.

The first approved curriculum for the Center will lead to the master of engineering degree. Additional curricula will be developed as the need arises. The graduate program will be administered as a part of the Graduate School.

For some time, graduate work has been offered in the King of Prussia area through Continuing Education Services, under district administrator Richard A. Swavely, and with the cooperation of the Upper Merion School Board.

An initial enrollment of about 175 graduate scientists and engineers is expected. Much of the program will be offered in late afternoon or in early evening.

faculty BULLETIN

Vol. 51, No. 16 Nov. 1, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Enrollment

The complete summary of Enrollment Statistics on Pages 3 and 4 reveals that the enrollment of credit students at University Park increased by nearly 1,000 (from 17,668 to 18,621) from the Fall Term, 1962, to the Fall Term, 1963.

At the same time, the number of full- and part-time students at the other Commonwealth Campuses (not including Continuing Education students) increased from 3647 to 3993, with the largest increase in the full-time, four-year group, which rose from 1856 to 1990, and the full-time, two-year group which increased from 1565 to 1724.

The combined enrollment, which includes not only credit students in residence at one of the Commonwealth Campuses but also non-resident credit students, short course, correspondence, and non-resident, non-credit Continuing Education students, now totals 35,945, of whom 27,082 are in residence.

Ag Hill party

"Agriculture Around the World" will be the theme for the 14th annual Ag Hill party Saturday at 5:30 p.m. in Recreation Building.

The program will include talks by international students on the progress and development of agriculture in their native countries and the decorations will be planned around an international setting. Also, Miss Agriculture for 1963 will be crowned and students in agriculture receiving awards and scholarships will also be recognized as part of the program.

Carpenter

Dr. C. R. Carpenter, now director of the University Department of Instructional Services, was named executive director of the planning committee for the Milton S. Hershey Medical Center this week. He will devote full time to the work.

The planning committee consists of ten of the country's leading biological and medical scientists and educators. Dr. Carpenter will begin immediately to collect the many kinds of information required to establish the operating philosophy and character of the medical center.

A member of the faculty since 1939, Dr. Carpenter has had many assignments in planning of programs. He served as a member of the committee which planned the Florida Atlantic University which will open next fall. He was also a member of a four-man Ford Foundation team which last winter went to India to study the nation's communications system. For many years he has been concerned with the role of mass media techniques, including television, as educational tools and in the past several years the broader field of all methods of education to raise academic standards.

He has been an officer in many educational and psychological associations, and is currently a member of the executive committee of the Association for Higher Education.

Russian panel

A panel discussion on "Student Life in the Soviet Union" will be conducted Thursday, Nov. 14 at 7:30 p.m. in the Mineral Industries Auditorium, sponsored by the Russian Area Committee.

Members of the panel will be Dr. Thomas Magner, head of the department of Slavic languages; Joseph Paternost, assistant professor of Slavic languages; and Mr. and Mrs. George Demko, who were exchange students at the University of Moscow last year. Demko is now graduate student in Soviet geography and did research on the historical geography of Kazakhstan while in the Soviet Union. The Demkos travelled widely in European and Asian Russia during their stay.

Both Dr. Magner and Paternost took part in a ten-week study of the Russian language in Moscow last summer. Dr. Magner as director of the group of American teachers and Paternost as a participant.

Graduate meeting

The meeting of the Graduate School Faculty scheduled for Nov. 19 has been cancelled.

ARE YOU WRITING A BOOK?

The Department of Publication Information (UN 5-7517, 312 Old Main) would like to be informed well in advance of publication of books being written or edited by members of the faculty.

The rate of book production is considered a useful—if not infallible—indicator of faculty productivity as the University takes its story to legislators, taxpayers, parents, and government, foundation, and industrial supporters of education and research.

Knowledge of forthcoming books will be of value in other ways, also; for example, in providing basic material for the University's television and motion picture program.

Notification of a forthcoming book well in advance of publication will be exceedingly helpful.

BOOKS



John A. Hostetler, assistant professor of sociology, is author of "Amish Society," to be published Nov. 25 by The Johns Hopkins Press. Hostetler, who teaches at the Ogontz Campus, was the younger child of an Amish family and was reared as an Amishman. He received his doctorate at Penn State, continuing his study of the Amish.

Donald W. Prakken, professor of classical languages, is editor of "Transactions and Proceedings of the American Philological Association," for 1962, published this week by the Association, printed in Great Britain by William Clowes and Sons, Ltd., and distributed by Cornell University Press. The book contains 522 pages of papers.

Sigmund S. Birkenmayer, Slavic languages assistant professor, has prepared a bound pamphlet titled, "A Study of the Preparation of High School Trained Students of Russian for College Russian Courses," published by the department, through a grant from the Central Fund for Research.

Theology lecture

Dr. Hans Hofmann, visiting professor at Episcopal Theological School, Cambridge, Mass., will lecture Saturday on "New Accents in Psychology and Theology," in the series on "New Accents in Contemporary Protestant Thought" being conducted by the faculty committee of the University Christian Association in cooperation with the office of the Coordinator of Religious Affairs.

The lecture will be given at 8 p.m. in Room 101 Chambers.

THE ARTS



art exhibit

An exhibit of drawings, prints, paintings, sculpture and other media will open Sunday at the HUB gallery, representing the work of many members of the faculty. A reception will be held from 7 to 9 p.m. Sunday to mark the opening.

pavilion theatre

The next production of Pavilion Theatre will be "U.S.A." by John Dos Passos and Paul Shyre which will run from Tuesday, Nov. 19 to Nov. 23. Tickets will go on sale at the box office Nov. 11, from 10 a.m. to 6 p.m.

thespians

The fall production of Thespians will be an original musical titled, "Fair Weather," to run Thursday, Friday, and Saturday, Nov. 14, 15, and 16, curtain time 8 p.m. Tickets will go on sale Monday, Nov. 11 and are priced at \$1.25 for Thursday and \$1.50 for Friday and Saturday.

"Fair Weather," with music by Martin Cohen, of Denver, and book by Marceine Sweetser and J. P. Froelich, concerns a space vehicle launching site in Florida and in particular a weather station operated by a female forecaster, played by Margery Bloomfield. Jim Hilsinger will play the astronaut, Chris, and other principals are Myra Lynch, Sally Diamond, and Harry Brown.

PERSONNEL MATTERS

DIED

Frank D. Gardner, professor emeritus and former head of the department of agronomy, died at the age of 98 in Orlando, Fla. He was a member of the faculty for 29 years until his retirement in 1937, and in his lifetime in the agronomy field had earned many honors. He was a graduate of the University of Illinois and was a pioneer in soil survey work in the west and southwest.

APPOINTMENTS

James Thompson has been appointed instructor in physical education at the McKeesport Campus. He has been graduate assistant since 1962. He received his bachelor of education degree from the University of Buffalo.

Joseph C. Conway, part-time graduate assistant since 1961, has been appointed research assistant in Mineral Industries. He received both bachelor's and master's degrees in mining engineering from Penn State.



Report on Advising

The ten Colleges and the Division of Counseling recently reported to President Walker on their advising procedures for undergraduate students. A summary of their reports is given below:

Procedures for assignment of advisers. Most students are assigned to advisers by the Office of the Dean in accordance with recommendations of the Department heads or their designated representative. Some departments rotate advisers while in others the advisers keep the same advisees until graduation. Advising is considered a normal part of a faculty member's assignment.

In most cases graduate faculty members who teach graduate courses only do not have undergraduate advisees since they have heavy assignments with graduate students. Graduate faculty members, however, who teach undergraduate courses do have a proportionate number of undergraduate advisees.

Scope of responsibility of advisers. It is generally accepted that the scope of the adviser's responsibility encompasses helping the advisee with registration matters including meeting the formal requirements of graduation in the curriculum of his choice, and particularly advising him in academic matters so that he can make optimum use of the educational opportunities offered by the University.

In so doing the adviser: 1) interprets department, college, graduate school, and University rules and regulations, especially as they apply to academic progress and scholarship; 2) maintains records so that advising can be consistent and so that each advisee is protected when faculty changes necessitate reassignment; and 3) has complete familiarity with services provided to students by other types of advisers such as those in the Division of Counseling, Health Service, Speech and Hearing Clinic, Reading and Study Center, Deans of Men and Women. One College is experimenting by asking the students to assume more individual responsibility. The experiment was dictated in

part by the increasing demands on advisers, and partly by the College's philosophy of advising.

Frequency of adviser/student get-togethers. Advisee get-togethers with the adviser are typically initiated by the student and occur with whatever frequency the advisee has need for them. All advisers have office hours and advisees have opportunities to meet with the advisers when necessary. Usually advisees doing poor work are referred to their advisers at least once during a term in addition to registration. Some advisers, especially at the freshman level, schedule group conferences.

Resources provided for advisers. In most instances handbooks, instruction sheets, checksheets, registration materials, profiles of academic abilities and materials provided by the testing service are available to the advisers. Usually close and frequent communication is maintained between the office of the Associate Dean and department heads and the advisers. The majority of colleges hold at least one general faculty advisers meeting each academic year.

Basis for student assignment to advisers. In the majority of cases college policy requires every faculty member to have advisees if he is involved in resident instruction unless exception is warranted by certain circumstances. Freshmen and sophomores in several colleges tend to be assigned to new faculty members. Students who have chosen their major field of interest are assigned to advisers who teach mainly in that field.

Proportion of total faculty assigned to advisers. The proportion of total faculty involved in advising students varies from approximately 20 percent to 100 percent among the colleges. Three colleges report less than 50 percent of faculty involved in advising. One college reports approximately 66 percent and the remaining six colleges report approximately 90-100 percent. Those faculty members not engaged in advising because of special reasons perform other assignments of importance to the college and students.

Prepared publications. All colleges prepare some type of information which provides instructions to advisers and advisees. The material ranges from procedure memorandums to "handbooks." Four colleges report they have a handbook in print and another college indicates one is in preparation.

HAYS TALK

Former State Senator Jo Hays, now Director of Unemployment Compensation Disbursements for the Commonwealth, will address the local chapter of Phi Delta Kappa, professional education fraternity, in an open meeting Wednesday, Nov. 13, at 6 p.m., in dining room "A" of the HUB. He will speak on "The Committee Uses Bifocals on Legislation."

REGISTRAR REPORTS ON ENROLLMENT FOR FALL TERM, 1963

Summary of
Total Enrollment

		Credit Summary			
		Resident	Undergrad.	Graduate	Special
BY CREDIT		University Park			Total
Resident credit	22847	Full time	15808	743	48
Non-resident credit	2696	Part time	122	1601	299
Total	25543	Other campuses			2022
Res. non-credit	4235	4-Yr. Full time	1990		1990
Non-res. non-credit	6167	4-Yr. Part time	32		32
Total	10402	2-Yr. Full time	1724		1724
Grand Total	35945	2-Yr. Part time	81		81
		Special Full time			18
		Special Part time			148
		Cont. Ed. Part time		22	211
		Total			22847
BY PROGRAM		Non Resident			
Undergraduate	20205	Continuing Education		135	1967
Graduate	2647	In Absentia		146	146
Special	2691	Correspondence	448		448
Short Course	560	Total			2696
Formal continuing	4658	GRAND TOTAL			25543
Informal continuing	1692				
Correspondence	3492				
Grand Total	35945				

BY LOCATION		Undergrad.				Total	Non	Grand
		FT	PT	Grad.	Spec.	Credit	Credit	Total
Allentown	480							
Altoona	460	57	5		7	99	381	480
Behrend	671	357	13		48	418	42	460
DuBois	238	343	11	14	62	430	241	671
Hazleton	278	179	4		8	191	47	238
McKeesport	894	262	10		6	278		278
Mont Alto	216	388	17		5	410	484	894
New Kensington	441	132	1			133	83	216
Ogontz	1872	103	3	2	102	210	231	441
Pottsville	228	1038	19		38	1095	777	1872
Scranton	288	209			19	228		228
University Park	19634	125	2			127	161	288
Wilkes-Barre	376	15808	122	2344	347	18621	1013	19634
Wyomissing	638	178	11			189	187	376
York	368	183	11		24	218	420	638
Other	8863	130	6	6	58	200	168	368
Grand Total	35945	19522	235	2366	724	22847	4235	27082

University Park Enrollment By Curriculum, College, Term

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
AC	145	14	10	76	5			1		1						226	26	252
AG SI				29	17	18	116	24	23	105	20	22				354	20	374
For				62	4	4	6	59	5	51	13	13				217		217
2 Yr. Ag	10	1	2	11	2	2										27	1	28
Total	155	15	12	178	28	24	122	84	28	157	33	35				824	47	871
ARTS AND ARCHITECTURE																		
A & A	116	10	3	7	6		1	1		2						102	44	146
A Art				25	2	3	24	8	1	31	4	7				32	73	105
Arch	14	2		37	2	1	39	6	5	35	3	2	24	3	6	173	6	179
Arts				10	2	1	23	9	2	15	2	1				17	48	65
LArch				15	1	1	19	3	1	20	2	1				58	5	63
Total	130	12	3	94	13	6	106	27	9	103	11	11	24	3	6	382	176	558
BUSINESS ADMINISTRATION																		
Total	312	33	28	317	60	56	370	102	82	363	88	75				1794	92	1886
EDUCATION																		
AEd				19	14	11	35	14	12	29	14	14				20	142	162
Ed	396	88	27	20	12	2	6				1					86	466	552
EKEd				149	68	33	193	65	55	206	65	17				20	831	851
1 Art				3	1	5	8	2	4	5	4	4				36		36
Mu Ed				3	5	4	13	5	3	12	6	2				26	27	53
RehEd				13	1	1	13	9	12	22	7	7				26	59	85
SecEd				142	33	49	249	65	67	233	47	35				433	487	920
SPA				1			1			2						2		4
VIDE																		2
Total	396	88	27	350	134	105	518	161	153	510	144	79				649	2016	2665

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
ENGINEERING																		
AerSp				62	5	10	80	11	9	47	11	12				245	2	247
AgE				13	2		10	2	1	4	5	3				40		40
AE	25	2	1	13	3		7	2	3	5			3		3	68		68
ChE				54	8	1	50	15	5	48	10	3				191	3	194
CE				38	9	7	15	43	11	13	47	7	18			207	1	208
EE				106	19	16	152	39	34	138	40	53				594	3	597
Engr	662	58	22	72	27	5	6									845	7	852
EMch				7	1	1	11		2	14	3	5				44		44
ESc				14	2	1	11	1		15	1	2				45	1	46
IE				19	3	4	33	5	7	38	15	22				146		146
ME				62	5	12	75	18	6	67	27	25				296	1	297
SE											5					5		5
Total	687	60	23	460	82	58	450	136	78	389	164	133	21		3	2726	18	2744
HEALTH & PHYSICAL EDUCATION																		
PhEd	46	4	5	32	9	8	45	10	9	44	14	21				130	117	247
RecEd				3		1	9	1	2	13	6	5				29	11	40
Total	46	4	5	35	9	9	54	11	11	57	20	26				159	128	287
HOME ECONOMICS																		
HEC	112	15	6	109	41	23	130	42	26	105	30	27				88	578	666
2 HFS	45	3		18	3	5										69	5	74
Total	157	18	6	127	44	28	130	42	26	105	30	27				157	583	740
LIBERAL ARTS																		
AL			3	443	109	68	571	113	87	346	123	70				776	1157	1933
DDP				4												4		4
Journ				36	9	7	60	13	15	56	15	5				119	97	216
LMR				3	1	2	15	2	1	10	2	3				36	3	39
LA	905	121	31	34	14	1	6	1								533	582	1115
Psy				37	22	19	90	27	17	88	20	18				211	127	338
Total	905	121	34	557	155	97	742	156	120	502	160	96				1679	1966	3645
MINERAL INDUSTRIES																		
Cer T				7	1		11	3	1	15	2	2				42		42
F T				4			12			5						23		23
Geog				2			1	2	1	5		1				11	1	12
GSc				12		1	14	2	4	13	7	7				57	3	60
Metal				9	1	2	18	3	1	15	4	2				55		55
Meteo				12	1	3	21	28	3	16	5	8				92	5	97
MnEc				2			3	2	1	3	1	1				13		13
MnT	77	6	8		3	1	3									92	6	98
MPE				4	1					2						7		7
MngE				1	4	3	9	1		1	1	1				21		21
PNCE				3	1	1	3	2	4	2	3	3				19		19
Total	77	6	8	56	12	11	95	43	15	74	25	25				432	15	447
SCIENCE																		
BioCh				15	1	1	8	4	2	5	2	2				29	11	40
Bot				5	1	6	9		1	3	3	3				26	5	31
Chem				26	8	7	64	11	2	22	7	7				131	23	154
Math				26	8	5	65	9	10	26	17	11				116	61	177
MedT				25	2	1	12	5	2	1						3	45	48
MierB				12		1	18	3	6	17	3	4				21	43	64
Phys				38	7	4	41	12	9	24	12	15				150	12	162
PM				55	4	9	53	11	9	36	10	5				167	25	192
Sc	345	68	16	27	26	4	19	6	4	15	8	4				423	119	542
Zool				12	3	3	33	4	11	32	7	7				92	20	112
Total	345	68	16	241	60	41	322	65	56	181	69	58				1158	364	1522
DIVISION OF COUNSELING																		
Total	73	27	28	240	38	32	79	24	7	11	6					481	84	565
Total Undergrad.																		
Stud., Univ. Pk.	3283	452	190	2655	635	467	2988	851	585	2452	750	565	45	3	9	10441	5489	15930

CALENDAR



Friday, Nov. 8

Physics Colloquium 4:15 p.m., Room 117 Osmond. Prof. H. L. Welsh, F.R.S., chairman of the physics department, University of Toronto, on "Recent Work on Pressure-Induced Infrared Absorption."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Paul Yavorsky, group leader, Radiochemistry, Consolidation Coal Co., on "Beta Radiation Processing at Rigorous Conditions."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Saturday, Nov. 9

Ag Hill party, 5:30 p.m., Recreation Building.

Mid-term below grades due.

Lecture by Dr. Hans Hofmann, visiting professor, Harvard Divinity School, on "New Accents in Psychology and Theology," 8 p.m., Room 101 Chambers, sponsored by U.C.A. faculty committee.

Sunday, Nov. 10

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Hans Hofmann, Harvard Divinity School, on "The New Man."

Concert by Alard String Quartet, 3 p.m., Schwab Auditorium.

Reception to mark opening of faculty art exhibit, 7-9 p.m., HUB gallery.

Monday, Nov. 11

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." John Pezzoni, Employee Benefits Division, on "State Employees Retirement System."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. C. Inman, on "Grain Boundaries in Metals and Alloys."

Tuesday, Nov. 12

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." William A. Vogely, chief economist, U. S. Bureau of Census, on "Regional Impact Analysis."

Accounting Faculty Seminars, 1 p.m.,

Room 301 Boucke. Dr. C. G. Blough, on "Problems in Consolidation."

Wednesday, Nov. 13

Phi Delta Kappa open meeting, 6 p.m., HUB dining room "A." Jo Hays, director of Unemployment Compensation Disbursements, on "The Committee Uses Bifocals on Legislation."

Thursday, Nov. 14

Statistics Seminar, 3:15 p.m., Room 214 Boucke. Dr. Harold Hotelling, Univ. of North Carolina, on "Behavior of Some Standard Tests under Non-Standard Conditions."

Opening night of Thespian show, "Fair Weather," 8 p.m., Schwab Auditorium.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. N. Sutin, Brookhaven National Laboratory, on "Kinetics of Fast Electron Exchange Reactions."

Panel discussion on "Student Life in the Soviet Union," 7:30 p.m., Mineral Industries Auditorium, sponsored by Russian Area Committee, featuring Dr. Thomas Magner, Joseph Paternost, and Mr. and Mrs. George Denko.

Friday, Nov. 15

Thespian production of "Fair Weather," 8 p.m., Schwab.

SERVICES OF WORSHIP

(All services in Helen Eakin Eisenhower Chapel except as noted.)

Roman Catholic—Monday through Saturday, 7 a.m., and 11:10 a.m.; Monday through Friday, 5:05 p.m. (except first Friday, 5:15 p.m.); Sunday, 7 a.m.; Sunday (in Hetzel Union Building), 9:15, 10:15 and 11:15 a.m.

Episcopal—Holy Communion, Monday and Thursday, 4 p.m.; Tuesday and Friday, 8 a.m.; Wednesday, 9 p.m.; Saturday, 9:30 a.m.

Methodist—Service of Worship, Sunday, 9 a.m.; Holy Communion, First Sunday of each month, 9 a.m.

Lutheran—Service, Sunday, 10 a.m., Holy Communion, Sunday, 8 a.m.; Vespers, Wednesday, 6:30 p.m.

Reformed—Vespers in Reformed tradition, Thursday, 6:30 p.m.

ANNUAL REPORT OF SENATE COMMITTEE ON STUDENT AFFAIRS

At the end of the 1961-1962 academic year the Senate reorganized its Committee on Student Affairs emphasizing that it was to recommend policy to the Senate and freeing the Committee of much of the administrative detail it formerly handled. The administration of the Senate's regulations passed to the Administrative Committee on Student Affairs including the time-consuming chartering of student organizations. With the reduced work load the Senate Committee on Student Affairs met five times during the last year to consider policy problems.

Among the problems and suggestions studied by the Committee were:

1. Relaxation of the requirement for a Board of Directors for small intra-college publications (Rule Y-15).
2. The formation of a single Board of Directors for all publications on campus (Rule Y-15).
3. Changes in Senate Regulations concerning female students' privileges regarding visits to apartments downtown.
4. The addition of a voting student member to the Sub-Committee on Discipline.
5. Several very minor changes in rules.

The committee voted to recommend number 4 above to the Senate. Accordingly the suggestion from the Student Government Association to add a voting member to the Sub-Committee on Discipline was passed with approval, to the Senate Committee on Committees.

All other policy changes reviewed by the Committee on Student Affairs were postponed or rejected and not recommended to the Senate.

During the 1962-63 academic year the Sub-Committee on Discipline, under the chairmanship of Dr. Ralph Asch, met on the average of once a week and heard approximately 250 cases involving infractions of Senate regulations.

Laurence H. Lattman, Chairman

faculty BULLETIN

Vol. 51, No. 17 Nov. 8, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main.

UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

THE ARTS



artists series

Mstislav Rostropovich, cellist from the Soviet Union, who made concert appearances in this country in 1956 and 1959, will be the next performer in the Artists Series Saturday, Nov. 23.

Tickets for the concert will go on sale to the public Thursday, Nov. 21, at 9 a.m. at the HUB desk.

Raymond Ericson, New York Times critic pointed out that the cellist's performance Oct. 25 in Carnegie Hall indicated that "the magnificence of his artistry and virtuosity (are) undiminished."

Born in Azerbaijan in 1927, the artist studied piano with his mother at the age of four and later took up the cello under his father. In 1937 he took up studies in his father's class at the Children's Music School in Moscow and later the Moscow Conservatory. He has been first cellist for the Moscow State Symphony and has introduced to the public Prokofiev's Second Cello Concerto and Shostakovich's Cello Concerto.

His program will include works by Bach, Kabalevsky, Schumann, and Benjamin Britten.

lecture-concert

A lecture-concert in Schwab Auditorium Wednesday, Nov. 20 at 8:30 p.m. will feature Denis Stevens, professor of music, the Alard Quartet, Edwin Gamble and Dr. Leonard Raver of the music department, a sec-

(Continued on page four)

Study Abroad adds Slade School

The Slade School of Fine Arts, of the University of London, England, has joined with Penn State in the Study Abroad Program and will accept as many as five students for the Spring Term, 1964. Dr. Dagobert de Levie, director of the program, has announced.

Dr. Jules Heller, dean of the College of Arts and Architecture, calls the Slade School one of the most noted in the world, including on its present staff John Piper, Henry Moore, Reginald Butler, and Victor Pasmore, among others. Opened in 1871 as the result of the interest of Felix Slade, who willed many books and art works to Great Britain at his death in 1868, the school has had such outstanding persons as Sir Edward Poynter, Allonse Legros, and Frederick Brown as Slade Professors at the University of London.

Enrollment at Slade School, Dr. Heller adds, is usually limited to outstanding art students of Europe or occasionally to a Fulbright Scholar from the United States. This is apparently the first invitation the school has made to an American university to send undergraduates.

Applicants for enrollment at the school will be judged critically by the Penn State faculty for excellence of previous art work and by the Slade School faculty as well before acceptance of the application.

In addition to the Slade School, the Study Abroad Program will include the Universities of Cologne, Strasbourg, and Salamanca, and the Architectural Association School of Architecture in London next Spring. Last year a total of 115 students spent the Spring Term abroad and applications now being considered indicate that student enthusiasm for the program is increasing.

BOOKS



use) on poems appearing in *The Collected Poems*, *The Necessary Angel*, and *Opus Posthumous*.

The Bien book on Hartley, who teaches English at Dartmouth College is a comprehensive study of Britain's contemporary novelists. Hartley's novels are widely read and praised in England but have failed so far to gain recognition in the United States. He is neither an experimental novelist nor a fully traditional one.

Bien has made use of his own conversations with the author and of many unpublished materials.

Books in Preparation

Dr. Woldemar A. Weyl, research professor of physical sciences, and Evelyn C. Marboe, associate professor of mineral science, are preparing Volume II of "The Constitution of Glasses: A Dynamic Interpretation." To be published next summer.

Dr. Hans Panofsky, professor of meteorology, and Dr. John L. Lumley, professor of aeronautical engineering at the Ordnance Research Laboratory, are preparing a book, "Structure of Atmospheric Turbulence," which will be published Mar. 17 by John Wiley and Sons. Not a textbook in the usual sense, it may be used by graduate students but it includes research work of an advanced nature done by both Dr. Lumley and Dr. Panofsky.

Ernest R. Weidhaas, associate professor of engineering graphics, is preparing a book, "Architectural Drawing," which is intended for high school courses in architecture. Goodheart, Willcox, and Co., Chicago, will publish sometime next year.

The second edition of "Polyphonia Sacra," a volume of 15th-century music edited by Charles van den Borren, eminent Belgian musicologist, will be published by The Pennsylvania State University Press Nov. 20 under the Penn State Music Series, edited generally by Denis Stevens, professor of music.

Long out of print and now virtually unobtainable, the volume is considered a classic of its kind, having a particular interest to musicologists and music historians. It contains the transcriptions of the most important Latin compositions found in the Bodleian Manuscript Canonici Miscellany 213, including the only complete Mass and the only Magnificat appearing in the manuscript.

Two excerpts from the volume will be sung by a section of the Meditation Chapel Choir, directed by Stevens, during the concert of Nov. 20 at 8:30 p.m. in Schwab Auditorium.

* * *

Two other books have been published this month by the University Press: "Concordance to the Poetry of Wallace Stevens," by Thomas F. Walsh, and "L. P. Hartley: A Commentary on the Work of a Distinguished British Writer," by Peter Bien.

Wallace, associate professor of English at Georgetown University, has based his concordance (an index of the principal words in the works of the poet, with citations on their

SENATE MINUTES



MEETING OF NOVEMBER 5, 1963

The University Senate met at 3:55 p.m. on Tuesday, November 5, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the October 1, 1963 meeting were approved as printed in the Faculty Bulletin for October 11, 1963. One hundred eighty-six senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Martha Adams (G. A. Stull), G. H. Albright (M. W. Isenberg), B. G. Anderson (E. L. Cooper), M. R. Fenske (Dorothy Quiggle), A. R. Grove (A. J. Kovar), G. R. Hudson (A. M. Wellington), K. W. Hylbert (C. G. Corle), D. R. McClay (N. K. Hoover), R. D. Reifsnieder (Kelly Yeaton), and Antoinette Valentine (Emily Ryals).

New Senators

A letter was read from Ben Euwema, Dean of the College of the Liberal Arts, stating that G. M. Moser had been elected to fill the unexpired term of J. A. DeNovo for 1963-1964; that F. L. Whaley had been elected to fill the unexpired term of Margaret B. Matson for 1963-1964; and that A. H. Reede would serve for Lois B. Hyslop while she is acting head of the Department of French.

A letter was read from R. G. Beinreuter asking the Senate to extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1963-1964, and to grant them the privilege of the floor but not the right to vote.

The secretary read a communication from the secretary of the Board of Trustees that at the meeting of the executive committee of the Board of Trustees on October 3, 1963, the following curriculums had been approved as recommended by the University Senate: Forestry in the College of Agriculture; Biochemistry, Microbiology, Botany, Medical Technology, and Zoology in the College of Science; and Speech Pathology and Audiology in the College of Education.

REPORTS OF STANDING COMMITTEES

H. F. Goodwin, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A" relative to ADMISSIONS REQUIREMENTS FOR THE COLLEGE OF ARTS AND ARCHITECTURE, BUSINESS ADMINISTRATION, AND THE TWO YEAR ASSOCIATE DEGREE CURRICULUM IN AGRICULTURE. Mr. Goodwin commented on the report and stated that item three relative to a change in the admissions requirements for the two-year curriculum in agriculture was not to be acted upon at this time. He

moved adoption of Item 1 to establish admission requirements for the new College of Arts and Architecture, and Item 2 to change the admissions requirements for the College of Business Administration. The motion was seconded and passed. Items 1 and 2 are as follows:

1. The new College of Arts and Architecture proposes to use the same admissions requirements as the College of The Liberal Arts with an additional footnote advising applicants for architecture, landscape architecture, and art to present one unit of drawing/art. The Senate Committee on Admissions has concurred in this proposal and recommends that the following admissions requirements for the College of Arts and Architecture be effective immediately:

English	3 units
Algebra	*2 units
History	1 unit
Science	1 unit
Foreign Language	2 units
Other Subjects	†6 units
TOTAL	15 units

* Either two units of algebra or one of algebra and one of plane geometry will satisfy the mathematics requirement.

† Applicants for admission to Architecture, Landscape Architecture, and Art are urged to present at least one unit of drawing or art.

2. The faculty of the College of Business Administration has proposed that beginning in June, 1965, the admissions requirements for the College be changed from those described under column A in the 1963-1964 University General Catalog to those described under column D. The Senate Committee on Admissions has approved this proposal and recommends that effective June, 1965 the admissions requirements for the College of Business Administration be as follows:

English	3 units
Algebra	*1½ units
Plane Geometry	*1 unit
Trigonometry	*½ unit
Science	1 unit
Other Subjects	8 unit
TOTAL	15 units

* A reorganized modern sequence in secondary school mathematics will be accepted for the traditional courses.

The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." He moved adoption of the proposals in Items 1 A and 1 B. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented an addition to page 9 of the REPORT ON THE GENERAL PURPOSES AND OBLIGATIONS OF THE PENNSYLVANIA STATE UNIVERSITY which had been distributed with the agenda as Appendix "C." He inserted a new

item d and changed the original d to e. The new item d is as follows:

To foster an appreciation for the growing needs of, and obligations to, the world community.

Item e:

To provide public service programs in keeping with the above.

President Walker asked the Senate to consider the whole report before amendments were considered. Mr. Schanz gave a resume of the background of this report and pointed out the changes that had been made since the original distribution in July.

R. W. Brewster commented on the report and moved that

The Committee on Educational Policy be authorized and directed to draft Item 1, B, 4 on page 5 of the Report in general terms of the introductory statement on page 3 setting forth the mission of the University to be the discovery, transmission, and storing of knowledge.

The motion was seconded. After discussion by Messrs. Brandow, Pollard, Brewster, and Powers the motion was lost by a showing of hands.

Leon Gorlow raised a question on the tense used in 1 A on page 1 and suggested it be worded in the present tense. J. D. Ridge moved that the words "was intended to" in the last sentence of the first paragraph of 1 A on page one be deleted. The motion was seconded and lost.

Ruth Ayres moved that the Committee on Educational Policy be asked to see whether a connotation of past tense exists in the wording of 1 A. The motion was seconded and lost.

W. S. Smith moved to add a phrase "and meaningful participation by both faculty and students in their own Government" to the second sentence of Item 4 on page 5. The motion was seconded and passed. The second sentence now reads:

Consistent with the democratic ideal of the inviolability of the human spirit and the ultimate worth of the individual, the University fosters the establishment and maintenance of moral and ethical standards, and meaningful participation by both faculty and students in their own Government.

Professor Gorlow suggested that in keeping with the style of the report the letters a, b, c, d, and e on page 9 should be changed to 1, 2, 3, 4, and 5.

E. F. Osborn moved that the word "natural" in the fourth line of B on page 11 be changed to "biological." The motion was seconded and passed.

G. E. Brandow moved that the words "recognizes a responsibility" replace the words "as a public state-supported institution, has a special responsibility" in the first sentence in Item 4 on page 5. The motion was seconded and passed. The first sentence now reads:

The Pennsylvania State University recognizes a responsibility in furthering the ideals of democracy.

Mr. Schanz moved that the Senate adopt the revised, corrected, and amended report

on THE GENERAL PURPOSES AND OBLIGATIONS OF THE PENNSYLVANIA STATE UNIVERSITY. The motion was seconded and passed. The complete report is on file in the office of the secretary.

UNFINISHED BUSINESS

Mr. Schanz presented the report on CREDITS REQUIRED FOR GRADUATION which had lain on the table for one month and moved that the policy as recommended by the Senate Committee on Educational Policy be adopted. The motion was seconded and passed. The policy is as follows:

The range of credits required for graduation from twelve-term baccalaureate programs is 120 to 144 credits. All programs must make provisions for the listing of basic ROTC.

Credits earned in ROTC courses may be applied toward meeting graduation requirements at the option of the College.

NEW BUSINESS

A. R. Gray, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved that

the Senate extend an invitation to all student members of the Senate Standing Committees and Subcommittees to attend the meetings of the Senate during the academic year 1963-1964, and to grant them the privilege of the floor but not the right to vote.

The motion was seconded and passed.

The next regular meeting of the Senate will be on December 3, 1963; the agenda will be distributed on November 19, 1963.

The meeting adjourned at 4:45 p.m.

Robert G. Bernreuter
Secretary

PERSONNEL MATTERS



Richard C. Neavel, graduate assistant in Mineral Industries since 1961, has been named research assistant. He was graduated from Temple University and received the master's degree in geology from Penn State. He was a coal petrographer for the Indiana Geological Survey from 1957 to 1961.

Charles S. Austin, senior engineer at the Laboratory for Electronics, Boston, since 1960, has been appointed research assistant in the Ordnance Research Laboratory. He received the bachelor of business administration degree from Northeastern University, master of science in industrial engineering from Columbia University, and has completed graduate courses at Northeastern University.

Dr. Hansjakob Rothenbacher, veterinary pathologist at Michigan State University, has been appointed associate professor of veterinary science. He is a native of West Germany, received his veterinary degree and doctorate in bacteriology and hygiene from Ludwig Maximilian University, Munich, and master of science and doctor of philosophy in veterinary pathology from Michigan State. He has been on the faculty of the University of Arkansas as well as that of Michigan State.

Telephone list

The following corrections to the information given in the current Faculty Directory are provided only for University faculty and staff members who were on the payroll as of Oct. 3, as regular, full-time employees. In the case of new employees, only those whose appointment papers were in the hands of the Data Processing division as of Oct. 3 are included.

865-5481 De Levie, Dagobert, 226 Sparks, Associate prof. German

865-5334 De Levie, Dagobert, 211 Willard, Asst. to Dean Study Abroad

* * *

865-5489 Fishburn, Hummel, 106 Armory, Head Dept. of Music

865-7800 Fishburn, Hummel, 264 Chambers, Head, Dept. of Music Education

* * *

865-7576 Ford, Donald H., 122 Graduate Bldg., Director Div. of Coun.

865-6583 Ford, Donald H., 131 Temporary Bldg., Director Placement Ser.

* * *

865-6583 Gray, William H., 108 Sparks, Prof. Latin American history

865-6752 Gray, William H., 207 Willard, Dir. International Student Affairs

* * *

865-4172 Nelson, Clifford A., 335 Baucke, assoc. prof. acct.

865-6540 Nelson, Clifford A., 105 Chapel, Coordinator Rel. Affairs

OMISSION

865-7583 Murray, Robert K., 115 Sparks, Head, History Dept., 1222 Old Boalsburg Rd., State College, Pa. 238-6270

* * *

865-6323 Van Ormer, Edward B., 101 Willard, Asst. Dean, Graduate School

NSF fellowships

Faculty members are asked by the Graduate School office to remind outstanding graduate students who are now, or have been, teaching assistants for one academic year that the application deadline is December 6 for Summer Fellowships for Former Teaching Assistants to be awarded by the National Science Foundation for the 1964 Summer period.

About 1,000 Fellowships will be awarded. The student may hold a fellowship for from eight to 12 weeks. He can also apply for an NSF academic year graduate fellowship to start in September. Stipend is \$85 per week and the Foundation pays his tuition.

No Graduate Record Examination is required for the summer fellowship program. The student must have a note of approval from the department in which he is majoring. Application forms, which he may obtain from the Graduate School Office, 101 Willard, must be returned by Dec. 6. Applicants will be notified of the results of the evaluation of his credentials shortly after March 15.

To be eligible, the student must have had at least one academic year of teaching experience, of at least eight hours per week. This "teaching" is defined as "teaching, laboratory instruction, grading of papers, and other duties directly related to his teaching responsibilities, and for which he is regularly paid by the institution." The teaching must be in the field of study included in the program.

PATTEE HOURS

Pattee Library will observe usual daytime and evening hours Thanksgiving Day, Nov. 28.

REAPPOINTED

Mamie A. Mook, professor of anthropology has been reappointed to the Pennsylvania Historical and Museum Commission by Gov. Scranton. He has served on the Commission since the administration of former Gov. Leader. The Commission is responsible for the restoration and maintenance of all State-owned historical properties, including the William Penn Memorial Museum and Archives Tower in Harrisburg, Pennsbury, Ephrata Cloisters, the Pennsylvania Farm Museum, Old Economy, Drake Well Park and Museum, and 15 other properties. It is also responsible for the planning and publication of State-sponsored research and publication in Pennsylvania History.

FIELD STUDY

Charlotte E. Ball, assistant professor of English at the DuBois Campus, is one of 92 American educators and school board members now on a 21-day field study of educational reform in the Scandinavian countries and the Soviet Union. Sponsored by the Comparative Education Society, Phi Delta Kappa, and the National School Boards Assn., the trip is headed by Dr. Gerald Read, Kent State University.

SIGMA XI PROGRAM

Dr. Nicholas M. Short, of the Lawrence Radiation Laboratory, University of California, will present a lecture sponsored by the Society of Sigma Xi Thursday, Nov. 21, at 8 p.m. in the Mineral Industries Auditorium. He will speak on "The A.E.C. Plowshare Program—Applications of Nuclear Explosives to Science, Engineering, and Industry." He will also show a 20-minute movie on "The Gnome Project."

HILLEL PROGRAM

Howard Da Silva, Broadway actor and recording artist, will present "An Evening with Sholom Aleichem, Sunday, Nov. 17 at 8:15 p.m. in B'nai B'rith Hillel Foundation auditorium. Sholom Aleichem is the pen-name of a noted author of Yiddish short stories depicting life in the ghetto. Tickets may be purchased at the HUB or at Hillel Foundation.

ANNIVERSARY

Thursday, Nov. 14, marked the tenth anniversary of the change in name from College to University. On that day in 1953 the Court of Common Pleas of Centre County approved the petition of the College for the change. A week earlier the State Council of Education had approved the petition. As then President Milton S. Eisenhower explained, the name University "would reflect more appropriately the stature, function, and character of the institution."

CALENDAR



Friday, Nov. 15

Thespian production of "Fair Weather," 8 p.m., Schwab.

Interlandia Folk Dance, 7:30 a.m., Room 302 Engineering "A."

Biophysics Seminar, 3:55 p.m., Room 105 Walker. Dr. George Palade, professor of cellular biology, Rockefeller Institute, N.Y., on "How An Epithelium Is Put Together."

Saturday, Nov. 16

Football, vs. Holy Cross, 1:30 p.m., Beaver Stadium.

Thespian production of "Fair Weather," 8 p.m., Schwab.

Friends of India Association celebration of "Festival of Lights," 7:30 p.m., Conference Center. Buffet-type dinner, open to public.

Sunday, Nov. 17

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gabriel Vahanian, department of religion, Syracuse University, on "The Obsolescence of Faith."

Hillel Foundation program by Howard Da Silva, "An Evening with Sholom Aleichem," 8:15 p.m., Foundation auditorium.

Monday, Nov. 18

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. J. J. Kaufman, professor of economics, on "The Folk Lore of Featherbedding."

Faculty meeting, College of Health and Physical Education, 7 p.m., Recreation Room, White Building.

Engineering Mechanics Seminar, 1 p.m., Room 210 Hammond. Dr. E. Hardenbergh, on "A Problem in Forced Non-Linear Vibrations."

Tuesday, Nov. 19

Opening night of Pavilion Theatre production of "U.S.A.," 8 p.m. (Continues through Nov. 22).

Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. J. J. Kaufman, on "The Railroad Labor Dispute: A Paradox of Maneuver and Improvisation."

Wednesday, Nov. 20

Lecture-concert, 8:30 p.m., Schwab Auditorium, with Denis Stevens, Alard Quartet, Leonard Raver, Edwin Gamble, and guest tenor Paul Richard.

Thursday, Nov. 21

Accounting Faculty Seminars, 1:15 p.m., Room 211 Boucke. Prof. Carman Blough, on "The Determination of Generally-Accepted Principles of Accounting."

Sigma Xi lecture, 8 p.m., Mineral Industries Auditorium. Dr. Nicholas M. Short, Lawrence Radiation Laboratory, on "The A.E.C. Plowshare Program—Application of Nuclear Explosives to Science, Engineering, and Industry." Also, film on "The Gnome Project."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Willis M. Person, University of Iowa, on "Infrared Spectra of Charge Transfer Complexes."

Friday, Nov. 22

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Nicholas Short, Lawrence Radiation Laboratory, on "The Role of Geology in the A.E.C. Plowshare Program."

Fluid Mechanics Seminar, 4 p.m., basement of Sackett. John B. Herbach, NSF Science Faculty Fellow, on "Effect of Large Scale Roughness on Flow in Open Channels."

Airport photos

The Trans World Flight Center, New York International Airport, which was designed by Eero Saarinen, is pictured in a series of photographs to go on display Monday, Nov. 18, at the architectural gallery in Room 300 Sackett.

The display is from the Smithsonian Institution Traveling Exhibition Service and was organized and is being sponsored by TWA.

Ezra Stoller, a 1961 American Institute of Architects gold medal winner for architectural photography, took the pictures.

Arts—

(Continued from page one)

tion of the Meditation Chapel Choirs, and Paul David Richards, guest tenor from New York.

Stevens will comment on the music to be presented and serve as conductor. The program will include the following:

Handel's cantata, "Look Down, Harmonious Saint," with Richards, Gamble, and the Alard Quartet. This was the first publication of the University Press Music Series which Stevens edits.

Thomas Roseingrave's voluntary, fugue, and double fugue performed by Dr. Raver on the organ.

Antonio de Cabezon's tiento, fantasia, and pavan as performed by the Alard Quartet.

Roseingrave's "Suite in D Minor," performed by Dr. Raver on the harpsichord.

Guillaume Legrant's "Gloria and Credo" performed by 20 voices of the Chapel Choirs and the Alard Quartet, directed by Stevens.

pavilion theatre

"U.S.A." by John Dos Passos and Paul Shyre will open at Pavilion Theatre Tuesday and continue until Saturday, Nov. 23. Kelly Yeaton is the director. Curtain time is 8 p.m.

Based on three novels of Dos Passos, the production will be staged in the form of a dramatic narration. It represents a kaleidoscopic cross section of forms of American life from the turn of the century until 1929 and the beginning of the depression.

Tickets may be obtained at the Pavilion Theatre box office or reserved by calling UN 5-6309.

faculty BULLETIN

Vol. 51, No. 18 Nov. 15, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY.

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

PERSONNEL MATTERS



Mrs. Margaret Eresian, medical technologist at the Manhattan Veterans' Hospital since 1962, has been appointed research assistant in the Human Performance Research Laboratory. She is a graduate in chemistry of Hunter College and was a chemist with the National Institutes of Health, Bethesda, Md., from 1961 to 1962.

Gordon E. Robinson, research assistant in the department of nuclear engineering and a member of the staff since 1960, has been named acting assistant director of the Nuclear Reactor Facility during the absence of E. S. Kenney, currently on leave to work on his doctorate.

Arthur Thompson, painter and architect, is currently visiting lecturer of art teaching free-hand drawing. He is on leave from the firm of Eaton W. Tarbell Associates, Inc., where he is head designer. He has been an architect since 1929 and as a painter has exhibited widely since 1934.

S. David Irons, formerly research assistant in mineral preparation, has been named instructor.

Dr. Peter Gould, assistant professor of geography at Syracuse University since 1960, has been appointed assistant professor of geography. He is a graduate of Colgate University. He has recently returned from Tanganyika and East Africa where he did work on simulation models.

Dr. Maximillian O. Braune, instructor of veterinary science since 1958, has been named assistant professor.

Jazz service

On Thanksgiving Day, Thursday, Nov. 28, at 4:00 p.m. the University Christian Association will conduct a Thanksgiving Service at Faith United Church of Christ, College Avenue and Locust Lane. An instrumental trio under the leadership of Thomas Vaughn will provide the service of liturgical jazz entitled "A Musical Offering to God." Vaughn is a third-year student at Yale Divinity School, and also a rising young jazz musician. He wrote the music for his jazz liturgy two years ago, using prayers and liturgical forms drawn from a variety of church traditions. It was first presented in the Yale Chapel and has subsequently been heard in several New York churches, on many college campuses, and on CBS Television.

Though "A Musical Offering to God" is not the first attempt to bring contemporary musical forms into the church's worship, the whole enterprise remains foreign to many churchmen and laymen, points out Sam Gibson, U.C.A. executive director.

Graduate lecture

Arthur H. Steinhaus, Dean Emeritus of George Williams College in Chicago and noted psychophysicist, will be the next speaker in the Graduate School Lecture Series.

He will speak Tuesday, Dec. 3, on the subject, "Fitness for Modern Living."

STUDENT ILLNESS

On Sept. 29, 1960, the University Senate took action, effective Nov. 3, 1960, to eliminate the "K" Rules which referred to the attendance of regular University classes.

Elimination of these rules placed on the individual instructor the responsibility of establishing attendance rules for his own classes. With the elimination of the rules, the University Health Service ceased issuance of "Illness Excuses," which, Dr. Herbert R. Glenn, director of the Health Service, says sometimes reached 10,000 in one year.

"Instructors should not, therefore, send students to the Health Center to obtain 'excuses' from our doctors," Dr. Glenn adds. "If the instructor believes that the student's reason for missing class is not based on fact and if the student had reported he was being treated at the Health Center, the instructor should call my office."

"If, on the other hand, the student was ill and was treated by us and if the instructor refuses to believe his reason, the student should report the facts to me for processing through the office of the dean of the College involved."

"In either case, we will provide whatever information is available from our records."

Greenhill named

Leslie P. Greenhill has been named to succeed Dr. C. R. Carpenter as director of the University Division of Instructional Services. Dr. Carpenter is now executive director for the planning committee for the Milton S. Hershey Medical Center.



A graduate of the University of Melbourne, Australia, Greenhill received a diploma in industrial psychology from the Australian Institute of Management. During World War II, while with the Australian Army he was responsible for the production of films, film strips, and other training materials.

Following a year at the University of Melbourne and a year in Great Britain for research, he came to Penn State in 1948, serving for six years with the Instructional Film Research Program.

L.A. television

The College of the Liberal Arts has a new committee whose job it will be to study the utilization of television as an instructional medium.

Chairman of the committee is Dr. Arthur Hungerford, assistant professor of speech, who says that the Committee's function will be "imagining," trying to come up with new ideas in the use of instructional television. The Committee will welcome suggestions from any faculty members.

Other members of the Committee, which will hold its first meeting Nov. 26, are J. J. Kaufman, economics; R. K. Murray, history; C. F. Hager, C.C.L.E.; D. B. Harris, psychology; H. E. Goodwin, journalism; R. T. Oliver, speech; and Marlowe Froke, journalism.

College bowl

University Student Government's Intellectual Climate Committee is planning a competition for the next Winter Term on the order of the popular television program, "G. E. College Bowl."

The competition will involve campus organizations of four-man teams answering questions on literature, history, art, physics, music, chemistry, philosophy, mythology, current events, economics, and other subjects.

Guest faculty members will be masters of ceremony for some of the contests, which will begin January 28 and continue for five weeks.

— The University and Industry —

A statement of University policy designed to assist in expansion of research and development industry in the State through the Commonwealth Industrial Research Corporation was announced this week by President Walker. CIRC is the joint Commonwealth-University agency established to attract new research and development industry as well as the growth of existing industry. The statement is as follows:

The Pennsylvania State University is an active participant in many phases of commerce, of industry, of institutions of health, the arts—of every aspect of our national, state and local development. To further implement this relationship with commerce and industry, and to facilitate the Commonwealth's economic development through fuller utilization of the University's strengths in science, engineering, technology, social science, and business, the following relationship and procedures have been developed. These are in addition to the traditional practice of making research results readily available.

The University will:

1. *Encourage its staff to act as consultants,* recognizing the desirability of making this service available particularly to Pennsylvania industry. The University will facilitate this activity under conditions consistent with the responsibilities of the faculty to the University.*

2. *Encourage the fullest utilization of the specialized skills and abilities of scientists, engineers, and social scientists employed by nearby industry to enhance course offerings of the University in rapidly advancing fields. Such sharing of rare talents will be beneficial to the participants and to the community.*

3. *Offer the facilities of the University in the recruiting of part time technical and semi-professional employees from qualified, advanced students for appropriate work in science oriented industry. Conversely, to the fullest extent possible, the facilities of this University will be*

made available on a credit or non-credit basis to qualified part time and advanced students engaged in study related to work in a technologically oriented industry or in private research laboratories.

4. *Encourage industry within or outside Pennsylvania to sponsor research using the special facilities of The Pennsylvania State University. Alternatively, when joint use of facilities, techniques, equipment or personnel by the University and industry would further research, such cooperative endeavor is endorsed, provided that appropriate mechanisms can be arranged.*

5. *Offer, as need appears, special and advanced courses, symposia, and colloquia with or without academic credit, to meet the various needs of technologically oriented industry, and private laboratories, and of university scholars, particularly in rapidly advancing or changing fields. Such offerings could be made on or off the campus, day time or evening, using the best qualified instructors and leaders from the University faculty or from industry, or both.*

6. *Provide access to special equipment for technologically oriented industry and to research and testing laboratories, when such facilities are not otherwise readily available from commer-*

cial sources, in the same manner as computer and reactor facilities are now offered.

7. *Make possible full utilization of library facilities and collections of the University for the use of technologically oriented industry of the community. Encourage the mutual exchange of technical literature between industry and the University.*

8. *Facilitate the development of other close and mutually rewarding relationships between the University, technologically-oriented industry and private research laboratories consonant with their respective responsibilities and objectives.*

Through open-minded and wholehearted cooperation of faculty, industry, the University administration and the Commonwealth Industrial Research Corporation (CIRC) these policies can be implemented effectively. The Commonwealth Industrial Research Corporation, a newly formed non-profit corporation with three members of the Governor's cabinet, three public members, and three PSU trustees as Directors, can serve as a focal point in many of these University-industry relations.

Arrangements made under the policies outlined above must not interfere with the primary objectives of the University—the education of students, the training of scholars, and the pursuit of knowledge for its own sake.

THE ARTS



artists series

A concert of unusual proportions will be given Wednesday, Nov. 27, in the Artists Series with John Browning, one of the outstanding pianists in the world, and the highly-favored Pittsburgh Symphony Orchestra, directed by William Steinberg. The performance will begin at 8 p.m. in Recreation Building.

Tickets for the concert will go on sale to the public at 9 a.m., Sunday, Nov. 24 and continue through Tuesday, Nov. 26.

The program will be opened by the Orchestra with Mozart's overture to "The Magic Flute" and continue with Browning's performance of Samuel Barber's "Piano Concerto, Opus 38." The second half of the program will be devoted to Tchaikovsky's

Symphony No. 6 in B Minor, "Pathétique."

Browning gave the premiere performance of the Barber work with the Boston Symphony, during the gala Opening Week of the Lincoln Center in New York. He also gave Belgian and English premieres as well.

The Pittsburgh Symphony, directed by Steinberg since 1952, makes an annual visit to the campus always to capacity crowds.

play produced

James Miller, instructor in English at the Behrend Campus, wrote, produced, and directed a one-act play titled, "Richman, Poorman, Beggarman, Thief," which was enthusiastically received by an audience of 25 at the Campus Nov. 8 and 9. The play is a parable for theatre, the action revolving around a man's attempt to be a fisherman.

* Occasionally offering advice and counsel in the area of one's special competence in consulting and is complementary to the individual's University duties; in contrast, working at a part-time job competes with these duties.

Air Environment

THE problems of air pollution—or more broadly air environment—are so complex as to require the services of not only the technical advisers whose jobs may seem obvious but of such diverse specialists as the sociologist, the meteorologist, the biologist, the chemist, economist, the public administrator, and many others.

For that among a number of reasons, Penn State's new Air Environment Center eventually will touch virtually every corner of the University in research, in instruction, and in extension-type activities, says Dr. Seymour Calvert, who joined the faculty in September as director of the new Center.

"Air pollution problems," he says, "begin with sociological or political problems, involving inter-relationships between individuals and groups in society. As individuals we react to physiological factors, ranging from subtle influence to gross insult and to psychological, or aesthetic, factors. In groups of all sizes we seek to recognize, identify, understand, and control environmental factors. When decisions are needed, economics serves as one of our bases for judgment.

"In short, air pollution, as a social-political problem, has much in common with other community or national problems."

The new Center, therefore, will involve not only a research program based on technological phases of the problems but also on a great many others. Undergraduate and graduate study programs will be built for majors in other fields, to help them specialize in an area of national importance. And continuing education programs—conferences, short courses, seminars, etc.—will be designed to help organizations, industries, communities, and individuals to solve the total problem involved in air pollution.

One of the most significant questions to be answered very soon is "What are Pennsylvania's Problems Now?" As elementary as the question might appear to be, it is nevertheless true that only scattered areas of the State have been studied to date and there has been no thorough study of the total air environment problem in any area. It is not enough to know what pollutants are emitted to the air and in which direction the winds blow. What communities or industries spend many thousands or perhaps millions of dollars on maintenance of structures or equipment because of corrosive influences in the

Dr. Seymour Calvert, who is the director of the new Air Environment Center discussed in the accompanying article, served as chairman of the City of Cleveland Advisory Board on Air and Water Pollution and as a consultant to the city on specific air pollution problems. When he announced his decision to take his present position, the City Council of Cleveland passed a resolution to commend Dr. Calvert for "a job well done" in serving the community "selflessly" and in making most significant contributions to the furtherance of the enactment of a modern Cleveland Air Pollution Code.



air which might be eliminated? Would the elimination of such influences be economically feasible? Who would pay for them? What other benefits would be realized from such a program? Would elimination of the problem raise or solve certain sociological problems?

By next spring, Dr. Calvert believes he will be in a position to initiate a survey of the State, but only with the help of many other interested persons both on and off campus and with graduate students of many subject matter fields.

A survey of the present problems in the State is not necessary to initiate further research, however; many problems are known, others are suspected but more likely to be recognized through means other than a survey. Dr. Calvert has listed the target areas for research, at least for the beginning, as the following: aerosols (analysis, generation, collection, chemical reactions, physical behavior); gases; dispersion of gases and particulates; effects on bio-systems; effects on materials; interactions with society; specific sources of contaminants; provision of environment; surveys and sampling.

"Obviously," says Dr. Calvert, "these are general areas. We do have

in mind or on paper specific proposals for study and have a project underway on gas purification processes." Three graduate students in chemical engineering, under Dr. Calvert's direction, are making the study which is concerned with air pollution control processes which show promise of being especially efficient or economical.

However, this is but one of what is hoped to be many grants for research in air environment which will be carried out by faculty or graduate students not directly part of the Center, but made possible by grants to the Center.

To aid in the development of the Center in many directions but specifically in the area of teaching and training, a request has been made to the U. S. Public Health Service for a five-year grant of more than a half-million dollars to provide stipends, teaching and technician salaries, laboratory equipment, and other expenses.

LABORATORIES

Among the physical facilities Dr. Calvert envisions for the University are: (1) a small particle laboratory; (2) micro-meteorological lab; (3) mobile labs and sampling stations; (4) an informational center and retrieval system; (5) a controlled environment plant growth chamber; (6) a physiological measurements lab.

Again, some of these laboratories would have their closest connection with other areas of the University, both in a physical and an operational sense, but their attention would be directed toward specific air environment problems.

Even these laboratories would not comprise the total University effort in the field; indeed they would only complement the many laboratories already existing which can be conceivably a part of the overall program. Cooperative programs involving the Human Performance Laboratory and the Mineralogy Analytical Laboratory are also being contemplated.

OTHER FACULTY

Dr. Calvert is, at the moment, the only full-time faculty member of the Center, but the Public Health Service grant for training would bring into play many other faculty members, some of whom will also be involved in air pollution research in the future.

Among those who have already expressed an interest in the training program, and a willingness to aid it, are the following:

(Continued on page six)

— The University and Industry —

A statement of University policy designed to assist in expansion of research and development industry in the State through the Commonwealth Industrial Research Corporation was announced this week by President Walker. CIRC is the joint Commonwealth-University agency established to attract new research and development industry as well as the growth of existing industry. The statement is as follows:

THE Pennsylvania State University is an active participant in many phases of commerce, of industry, of institutions of health, the arts—of every aspect of our national, state and local development. To further implement this relationship with commerce and industry, and to facilitate the Commonwealth's economic development through fuller utilization of the University's strengths in science, engineering, technology, social science, and business, the following relationship and procedures have been developed. These are in addition to the traditional practice of making research results readily available.

The University will:

1. Encourage its staff to act as consultants,* recognizing the desirability of making this service available particularly to Pennsylvania industry. The University will facilitate this activity under conditions consistent with the responsibilities of the faculty to the University.

2. Encourage the fullest utilization of the specialized skills and abilities of scientists, engineers, and social scientists employed by nearby industry to enhance course offerings of the University in rapidly advancing fields. Such sharing of rare talents will be beneficial to the participants and to the community.

3. Offer the facilities of the University in the recruiting of part time technical and semi-professional employees from qualified, advanced students for appropriate work in science oriented industry. Conversely, to the fullest extent possible, the facilities of this University will be

made available on a credit or non-credit basis to qualified part time and advanced students engaged in study related to work in a technologically oriented industry or in private research laboratories.

4. Encourage industry within or outside Pennsylvania to sponsor research using the special facilities of The Pennsylvania State University. Alternatively, when joint use of facilities, techniques, equipment or personnel by the University and industry would further research, such cooperative endeavor is endorsed, provided that appropriate mechanisms can be arranged.

5. Offer, as need appears, special and advanced courses, symposia, and colloquia with or without academic credit, to meet the various needs of technologically oriented industry, and of private laboratories, and of university scholars, particularly in rapidly advancing or changing fields. Such offerings could be made on or off the campus, day time or evening, using the best qualified instructors and leaders from the University faculty or from industry, or both.

6. Provide access to special equipment for technologically oriented industry and to research and testing laboratories, when such facilities are not otherwise readily available from commer-

cial sources, in the same manner as computer and reactor facilities are now offered.

7. Make possible full utilization of library facilities and collections of the University for the use of technologically oriented industry of the community. Encourage the mutual exchange of technical literature between industry and the University.

8. Facilitate the development of other close and mutually rewarding relationships between the University, technologically-oriented industry and private research laboratories consonant with their respective responsibilities and objectives.

Through open-minded and wholehearted cooperation of faculty, industry, the University administration and the Commonwealth Industrial Research Corporation (CIRC) these policies can be implemented effectively. The Commonwealth Industrial Research Corporation, a newly formed non-profit corporation with three members of the Governor's cabinet, three public members, and three PSU trustees as Directors, can serve as a focal point in many of these University-industry relations.

Arrangements made under the policies outlined above must not interfere with the primary objectives of the University—the education of students, the training of scholars, and the pursuit of knowledge for its own sake.

THE ARTS



artists series

A concert of unusual proportions will be given Wednesday, Nov. 27, in the Artists Series with John Browning, one of the outstanding pianists in the world, and the highly-favored Pittsburgh Symphony Orchestra, directed by William Steinberg. The performance will begin at 8 p.m. in Recreation Building.

Tickets for the concert will go on sale to the public at 9 a.m., Sunday, Nov. 24 and continue through Tuesday, Nov. 26.

The program will be opened by the Orchestra with Mozart's overture to "The Magic Flute" and continue with Browning's performance of Samuel Barber's "Piano Concerto, Opus 38." The second half of the program will be devoted to Tchaikovsky's

Symphony No. 6 in B Minor, "Pathétique."

Browning gave the premiere performance of the Barber work with the Boston Symphony, during the gala Opening Week of the Lincoln Center in New York. He also gave Belgian and English premieres as well.

The Pittsburgh Symphony, directed by Steinberg since 1952, makes an annual visit to the campus always to capacity crowds.

play produced

James Miller, instructor in English at the Behrend Campus, wrote, produced, and directed a one-act play titled, "Richman, Poorman, Beggarman, Thief," which was enthusiastically received by an audience of 25 at the Campus Nov. 8 and 9. The play is a parable for theatre, the action revolving around a man's attempt to be a fisherman.

* Occasionally offering advice and counsel in the area of one's special competence is consulting and is complementary to the individual's University duties; in contrast, working at a part-time job competes with these duties.

GRANTS



R. H. Essenhigh, fuel technology, \$4,770, Babcox and Wilcox Co., for studies of the devolatilization kinetics of coal particles in flames.

Engene Goodwin, journalism, \$1,000, The Readers Digest, to support travel and research by students in journalism.

H. S. Fowler, secondary education, \$1,000, Penna. Game Commission, to aid teaching of wildlife conservation and management.

W. A. Weyl, Mineral Industries, \$500, Ferro Foundation, support preparation of book, "Constitution of Glasses."

William Spackman, geology and geophysics, \$1,000, Oklahoma Research Corp., to support the catalog for fossil spores and pollen.

C. D. Stahl, fuel technology, varied amounts, Marathon Oil Co., for graduate fellowship in petroleum engineering.

W. J. Mueller, poultry husbandry, \$3,000, Cooperative G.L.F. Exchange, to support research concerning egg quality.

B. W. Niebel, industrial engineering, \$13,650, Western Electric Co., donation of equipment for instruction.

L. R. Knechene, plant pathology, \$5,000, Fimbuco, for development of pullball type mushrooms.

L. R. Knechene, plant pathology, \$3,500, The Buckeye Cellulose Corp., for studies of cottonseed products in mushroom nutrition.

W. R. Buessens, Materials Research Laboratory, \$3,790, Stackpole Carbon Co., for graduate fellowship in field of ferrites.

C. R. Carpenter, UDIS, \$3,000, Penna. Dept. of Public Instruction, for engineering, consultative, and legal services to activate new educational television facility. Also, \$100,000 to establish an educational television facility.

L. W. Hu, engineering mechanics, \$20,515, U. S. Air Force, to study effects of triaxial stresses on mechanical properties of metals under high pressure.

Robert W. Tait, chemistry, \$47,500, Office of Naval Research, for research on the separation of polar, steric and resonance effects in donor-acceptor equilibria.

H. B. Palmer, fuel technology, \$8,480, J. M. Huber Corp., for hydrocarbon decomposition studies related to carbon formation.

F. A. Hummel, ceramic technology, \$1,300, The Pfandler Co., to support research in the field of geochimistry and ceramics.

William Powers, chemistry, \$126,500, National Science Foundation, 1964-65 Academic Year Institute in the Physical and Earth Sciences.

B. W. Niebel, industrial engineering, \$36,900, National Science Foundation, for summer institute in applied mathematics and process engineering.

Gorolki, W. H., civil engineering, \$43,507, Penna. Dept. of Highways, for a study of physical factors affecting durability of asphalt pavements.

Palladino, N. J., nuclear engineering, \$3,500, American Machine and Foundry Co., equity in Ray-di-Pak radioactive waste concentration unit.

HEAT TRANSFER

Warren M. Rosenow, director of the Heat Transfer Laboratory in the mechanical engineering department of the Massachusetts Institute of Technology, will speak on "Heat Transfer—State of the Art." Tuesday, Nov. 26, at 4 p.m. in Room 105 Mechanical Engineering. His visit is sponsored by the American Society for Engineering Education and the Department of Mechanical Engineering.

LIBRARY HOURS

Pattee Library will observe its usual hours on Thanksgiving Day. Branch libraries will observe the following schedules: Home Economics and Mineral Industries, 2:55 p.m. and 7:10 p.m.; Agriculture, 9 a.m. to noon, 2:55 p.m., and 7:10 p.m.; Chemistry Physics, 8 a.m. to 11 p.m.; Engineering, 7:50 a.m. to 11 p.m.

ENDOCRINOLOGY

An Eastern Regional Meeting of the Comparative Endocrinology Division of the American Society of Zoologists will be held at the University tomorrow (Saturday), in the Nittany Lion Inn conference rooms. Scientists from Penn State, the State University of New York, Boston University, Rutgers, Yale, the University of Pittsburgh, Massachusetts State College in North Adams, and Princeton will deliver papers. Drs. R. T. Houlihan (zoology), Dr. Ellsworth R. Buskirk (Human Performance Research Laboratory) and Dr. Adam Anthony (zoology) will chair sessions.

HONORED

Dr. Joseph Marin, head of the department of engineering mechanics, was honored by the American Society of Mechanical Engineers recently by election to the grade of Fellow, for his contributions in the fields of research, teaching, and consulting in his field.

INTERDEPARTMENTAL ENVELOPES

From time to time some campus offices accumulate quantities of interdepartmental envelopes, either small or large size and have no immediate use for them. Other offices use many more than they receive in campus mail delivery.

The Campus Mail Service acts as a clearing house for such envelopes and will pick up the unwanted pieces at the time of regular mail delivery, if they are tied or bundled and identified to avoid confusion with regular mail.

Offices needing a supply of these envelopes may call UN 5-8311 and they will be delivered.

TELECAST

A special telecast marking the tenth anniversary of the University will be rebroadcast by Altoona, WFBG-TV, Channel 10, Sunday, Nov. 24 at 2 p.m. The program, which features President Walker in an interview with Marlowe Froke, associate professor of journalism, was taped when it was presented on the "Second Chair" program Thursday, Nov. 14.

CALENDAR



Friday, Nov. 22

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. Leonard Zimmerman, professor of microbiology, on "Genetic Exchange in Streptococci."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Nicholas Short, Lawrence Radiation Laboratory, on "The Role of Geology in the A.E.C. Plowshare Program."

Fluid Mechanics Seminar, 4 p.m., basement of Sackett. John B. Herbich, NSF Science Faculty Fellow, on "Effect of Large Scale Roughness on Flow in Open Channels."

Saturday, Nov. 23

Final performance of Pavilion Theatre show, "U.S.A." by John Dos Passes and Paul Shyre, 8 p.m.

Artists Series, 8:30 p.m., Mstislav Rostropovich, Russian cellist, Schwab Auditorium.

Sunday, Nov. 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gayraud S. Wilmore, executive director, United Presbyterian Church's Committee on Religion and Race, on "The Dividing Wall Breached."

Hillel Graduate Association program, 8 p.m., Hillel Foundation Auditorium. Dr. Paul Edmonston, art education department, on "The Images of Men in Contemporary Art."

Monday, Nov. 25

Faculty Luncheon Club, 12:30 p.m. HUB dining room "A." Nicholas Masters, associate professor of political science, on "The Summary and Evaluation of Dr. James B. Conant's Recent Books—Education of the American Teacher."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Prof. Y. Weitsman, on "Effects of Couple-Stresses in Linear Elasticity—Two Dimensional Case."

Tuesday, Nov. 26

Accounting Seminar, 1:15 p.m., Room 301 Boucke. Dr. C. G. Blough, on "Accounting for Business Combinations."

Lecture by Warren M. Rosenow, Massachusetts Institute of Technology, on "Heat Transfer—State of the Art," 4 p.m., Room 105 Mechanical Engineering.

Home Economics faculty meeting, 3:55 p.m., Room 209 Home Economics South. Dr. R. G. Bernerstein, on "Student Affairs." All interested persons invited.

Wednesday, Nov. 27

Artists Series program by John Browning, pianist, and the Pittsburgh Symphony, directed by William Steinberg, 8 p.m., Recreation Building.

Thursday, Nov. 28

Thanksgiving Day.

Friday, Nov. 29

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. George Kapo, department of chemistry, Case Institute of Technology, on "The Liquid Phase Oxidation of Coal."

ITEMS OF INTEREST



Elected and Appointed

AMALONG, R. H., Placement Service, elected to two-year term on the executive committee of the Association for School, College, and University Staffing.

COFER, C. N., psychology, appointed editor of "Psychological Review," bi-monthly publication for psychologists.

FLETCHE, H. D., Institute of Public Safety, elected to the executive committee of the school transportation and commercial vehicle sections, National Safety Council.

MAGNER, T. F., Slavic languages, re-elected president of the Pennsylvania chapter of the American Association of Teachers of Slavic and East European Languages.

MACKENZIE, OSIAN, Business Administration, elected chairman of a committee to formulate a statement of objectives and purposes of the Business Administration Division of the National Association of State Universities and Land-Grant Colleges.

MEYER, W. E., mechanical engineering, nominated to the advisory group on Diesel smoke, California Motor Vehicle Pollution Control Board.

—appointed to the Powerplant Activity Committee, American Society for Automotive Engineers.

NELSON, G. K., accounting, appointed to the Grants-In-Aid Committee, National Association of Accountants.

OLSON, D. R., mechanical engineering, appointed to the underwater propulsion committee, American Institute of Aeronautical and Astronautical Sciences.

SCHUMANN, E. C., Engineering Experiment, appointed to the Advisory Committee on Performance Characteristics for Sanitary Plumbing Fixtures of the Building Research Advisory Board, Washington, D.C.

Articles and Papers

DE JONG, G. F., with FORD, T. R., sociology and anthropology, "The Decline of Fertility in the Southern Appalachian Mountain Region," in the October issue of The Journal of Social Forces.

DELLER, N. R., management training, "Creativity in Industry," in the October issue of the Delaware Valley Announcer.

GOEDRICH, M. A., agricultural entomology, "Secondary Sexual Dimorphism in *Cotinis nitida* L. (Coleoptera Scarabaeidae)" in the September issue of the Coleopterist's Bulletin.

HARTSOOK, E. W. and HERSHBERGER, T. V., animal nutrition, "A Simplified Method for Sampling Small Animal Carcasses for Analyses," in the Proceedings of the Society for Experimental Biology and Medicine.

KNEIFIN, F. W., marketing, a small business bibliography published by the Small Business Administration.

OLDSBY, B. S., English, "The Snows of Ernest Hemingway," in the current issue of the Wisconsin Studies in Contemporary Literature.

OLSON, D. R., mechanical engineering, "Axisymmetric Solidification and Melting of

Materials," at the Winter meeting of the American Society of Mechanical Engineers at Philadelphia.

MARIN, JOSEPH, engineering mechanics, "An Experimental and Theoretical Study on Biaxial Strain-Cycling," at the annual meeting of the A.S.M.E. in Philadelphia.

PATTON, STUART, and MCCARTHY, R. D., dairy science, "Structure and Synthesis of Milk Fat V. A Postulated Sequence of Events from Analyses of Mammary Tissue Lipids," in the September issue of the Journal of Dairy Science.

PRYBYLA, J. S., economics, "The Quest for Economic Rationality in the Soviet Bloc," in the Autumn issue of Social Research.

— "The Economic Writings of George Ramsay, 1800-1871," in the November issue of the Scottish Journal of Political Economy.

SKELL, P. S., chemistry, "The Chemistry of C₃ and Other Molecular Carbon Species" at Duke University.

WENZ, R. E., U. C. A., "The Church in a Decadent Society," in the November issue of The Pulpit.

WHITE, E. E., speech, "Cotton Mather's Manducation ad Ministerium in the October issue of The Quarterly Journal of Speech."

Lectures and Talks

ABDISON, ARNOLD, Ordnance Research Laboratory, "The Role of the Universities, R. and D. Labs, Management, Research and Scientific Meetings in Technical Communications," at the Eastern Analytical Symposium, sponsored by the American Chemical Society, the Society for Applied Spectroscopy, and the American Microchemical Society.

CARPENTER, C. R., Hershey Medical Center, talk and film on development of instructional television at Penn State before 450 teachers and administrators of New York schools at Albany, N. Y.

DUBIN, S. S., Continuing Education, "Brainwashing: A Comparison of Russian and Chinese Methods," at an open meeting of Psi Chi.

— "Continuing Professional Education of Engineers," before the Deans of Engineering Colleges at meetings of the Association of State Universities and Land-Grant Colleges.

EDMONSTON, PAUL, art education, lectures at the 24th annual Central Western Education Conference of the P.S.E.A. at Indiana; also at the sixth annual Central Pennsylvania Education Conference in Harrisburg.

KELLEY, E. J., business administration, "The Marketing Concept and the Automobile Industry," before the Chevrolet Academy of Retail Sales Management at Wayne State University.

— "Knowledge Accumulation and Corporate Strategy," for executives of the Western Electric Co., in Princeton, N. J.

HYLBERT, K. W., Counseling in Education, "Psychological Implications for the Cardiac Patient," at a recent conference on the Cardiac Patient as Homemaker.

McKINLEY, D. H., Business Administration, "Economic Issues of the 1964 Presidential Election," before 250 members of the Trust Division of the New York State Bankers Association in New York.

MARSH, C. R., electrical engineering, testimony as government witness on subject of night vision before the Federal Trade Commission.

— "Cost Analysis in Technical Services in Libraries," at the Nov. 15 meeting of the New York Technical Services Libraries at Columbia University.

READ, H. J., metallurgy, "A Metallurgist Looks at Electroplated Coatings," before the Detroit Branch of the American Electroplaters' Society.

SOMMERFELD, EDNA, Home Economics, "Highlights of the International Congress of Home Economics, Paris, 1963," before the meeting of the Southern District, Penna. Home Economics Association.

ULMER, G. C., geochemistry, "General Experimental Geochemistry," "The Geologically Important Spinel," and "Tekites and the Second International Tekite Symposium" in a series of seminars before the Geology and Chemistry Departments, University of Cincinnati.

BOOKS



Warren S. Smith, professor of theatre arts, is author of the book, "The Religious Speeches of Bernard Shaw," to be published by the University Press Nov. 29.

Seven years in the making, the book actually stems from an interest in Shaw by Smith of over 20 years. Observing that Shaw plays and particularly their prefaces made frequent references to religion, Smith determined to pinpoint the speeches made by the noted literary figure on the subject. Many biographies referred to the speeches, none published them, and Smith had great difficulty locating them in entirety, partly because Shaw never spoke from prepared text, although he made notes beforehand.

The book contains all or major parts of 11 speeches by Shaw and introduction and notes by Smith. The speeches are arranged chronologically from 1906 to 1937, and their contents were flushed out in many different ways, some from newspapers such as the New York Times and the Manchester Guardian, others from recordings, still others from pamphlets privately printed. Some from England were procured on microfilm.

The book represents the first such approach to Shaw's religious statements made outside his plays.

Dr. Stanley Weintraub, associate professor of English, is author of "Private Shaw and Public Shaw," which has been published recently by the London, England, firm of Jonathan Cape. The original publication was made last spring by Braziller.

(Continued from page five)

Richard D. Schein, botany; Robert H. McCormick, chemical engineering; I. Clarence Hisatune, Frederick W. Lampe, and Mary L. Willard, chemistry; Leonard G. Austin and Robert H. Essenhig, fuel technology; Allan Rodgers, geography; John W. Mastalerz, horticulture.

Edward D. Yates, journalism; Wolfgang E. Meyer, mechanical engineering; Harold R. Read and George Healy, metallurgy; Charles L. Hosler, Hans A. Neuberger and Hans A. Panofsky, meteorology; Harold L. Lovell and Theodore S. Spicer, mineral preparation; Thomas F. Bates, mineralogy; Howard L. Hartman, mining engineering; Ward S. Die-thorn; Anthony H. Foderaro, and Edward Kenney, nuclear engineering; James Tammien and Francis A. Wood, plant pathology; William R. Monat and John H. Ferguson, political science; Jerome E. Singer, psychology;

Macklin E. John, H. Kirk Danser-au, and William G. Mather, sociology; David E. Davis, zoology; Ellsworth R. Buskirk, Human Performances Lab.

The variety of fields represented by such a faculty well illustrates the complexity of the air environment problem. Each of the areas listed already provides 400 or 500-level courses which have a bearing on the air environment problem. Some others could be included quite logically—for example, acoustics and the physics of sound, because noise is certainly an air environmental factor and

is frequently of very serious concern from the standpoints of both health and economics.

THE NEED FOR TRAINING

The present state of knowledge in the air environment field is good and many communities or industries have problems to which that knowledge could be applied satisfactorily. Unfortunately there are not enough trained people to solve the problems. In Dr. Calvert's view the Graduate Training Program which he proposes to carry out would help to develop such trained persons, but it would go a great deal further by focusing attention of many kinds of disciplines on the air pollution problem.

"Because the requirements in the field are so broad," Dr. Calvert illustrates, "we need not demand of the graduate student a background of, let us say mechanical or chemical engineering, fields of my own specialty, to be useful in the air environment field. As a plant pathologist, he may contribute a great deal if he understands all the ramifications of the problem and can lend his own special talents where others cannot. In his graduate training, he need not make a strong irreversible commitment to air pollution.

"Therefore I envision the Graduate Training Program as a way of providing many types of specialists in air pollution, none of whom would be committed exclusively to it."

One of the important functions of the Center, Dr. Calvert feels, is to provide information, as a meeting place for ideas. Some of these ideas and facts come directly from the fac-

ulty and graduate students involved, others from literature. In both cases it is desirable to have a central "storage" place based on the area of interest, so Dr. Calvert is already working to achieve a special library made as effective as possible by modern retrieval methods.

"An information center such as this would be useful for direct classroom work, for continuing education activities, and for the researcher," Dr. Calvert says.

AS A LEADER

Penn State will not have the only air environment center in the country. Perhaps the best known now is at the University of California at Riverside. Nor will the interdisciplinary approach be unique here. There are few colleges or universities, however, which are in a position to provide the talents from as many interdisciplinary fields at Penn State, and so Dr. Calvert feels that the University can make many original contributions to the field.

"So far as I know, no one has attempted to develop a training and research program as broad as this one. Many air environment problems are being solved, but new ones develop just as rapidly. We make a mistake if we think that air pollution problems will be solved by simply passing a law against them.

"This field is too complex for such easy solutions. And if we intend seriously to study the entire field of air environment, we must think in terms as broad as the great variety of factors which may influence or be influenced by the life of man."

faculty BULLETIN

Vol. 51, No. 19 Nov. 22, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

faculty BULLETIN

**Weekly Publication
of Pennsylvania
State University**

Technology

A conference on "Technology and Human Values," will be conducted by the Center for Continuing Liberal Education of the College of The Liberal Arts from Wednesday through Friday, Dec. 4-6.

Meetings will be held in the Nittany Lion Inn.

The purpose of the Conference is to study how traditional American emphasis on the dignity of man and the worth of the individual may be maintained and enhanced in a period of unprecedented economic and social change and of profound personal and social dislocations.

Dr. Maxwell H. Goldberg, associate director for humanities of C.C.L.E., is conference chairman.

Among the speakers to participate are Stanley Foster Reed, president of The Reed Research Institute for Creative Studies and of the Technology Audit Corporation; Donald N. Michael, resident fellow, Institute for Policy Studies and author of "Cybernation: The Silent Conquest"; Frederic E. Pamp, Jr., president of The American Foundation for Management Research; and Ralph D. Hetzel, Jr., a University trustee and vice president of the Motion Picture Association of America.

Two panel discussions will be held on Thursday and the dinner speakers will be Dr. Charles H. Boehm, State Superintendent of Public Instruction, and Milton J. Shapp, president of the Jerrold Corp.

Friday's sessions will also include panel discussions and the Conference will conclude at 3:30 p.m.

Graduate lecture

Arthur H. Steinhaus, Oscar G. Mayer Distinguished Service Professor and dean emeritus of George Williams College, Chicago, will deliver the Graduate School Lecture Tuesday, Dec. 3, in Room 121 Sparks.

He will speak on "Fitness for Modern Living."

A member of the faculty of George Williams College since 1920, Dr. Steinhaus has done teaching, research, and performed other professional activities which have made him known internationally in the field of physiology and physical fitness. He has served as Fulbright professor in Germany and Japan and has also lectured in England, Denmark, Finland, the U.S.S.R., Switzerland, Italy, Greece, Egypt, Turkey and many other countries.

A graduate of George Williams College, from which he also obtained a master's degree, he obtained three degrees from the University of Chicago.

He is a prolific writer, some of his books being "Tobacco and Health" (1948); "Lectures on the Physiology of Exercise" (1950); and "Toward an Understanding of Health and Physical Education" (1963). He is a fellow in six professional societies and a member of many others and has received four important honors in the field of physical education.



Steinhaus

NO MAKE-UPS

The University will schedule no make-ups of classes canceled Monday, Nov. 25. Dr. J. R. Rackley, vice president for resident instruction, said it would be impossible to schedule such sessions without extending the term, thereby imposing undue hardship on students and faculty. All classes and examinations scheduled for Monday were canceled.

President Walker, on Tuesday, expressed his appreciation of the patience and forbearance shown by students, faculty, and staff during the period following the death of President Kennedy.

Fellowships

Eight graduate fellowships have been awarded to the University by the U. S. Office of Education, each beginning in September, 1964.

The fellowships, provided under the National Defense Education Act, Title IV, are in biophysics, mathematics, and history. Each fellowship is provided for three years, with stipends of \$2,000 for the first year, \$2,200 for the second, and \$2,400 for the third, plus allowances for \$100 a year for each dependent.

Purpose of the fellowships is to assist graduate students who are interested in preparing themselves to teach in the Nation's colleges and universities and to increase facilities for graduate study geographically.

Those interested should write to the respective departments of biophysics, mathematics, or history for application materials and further information.

Service Award Program

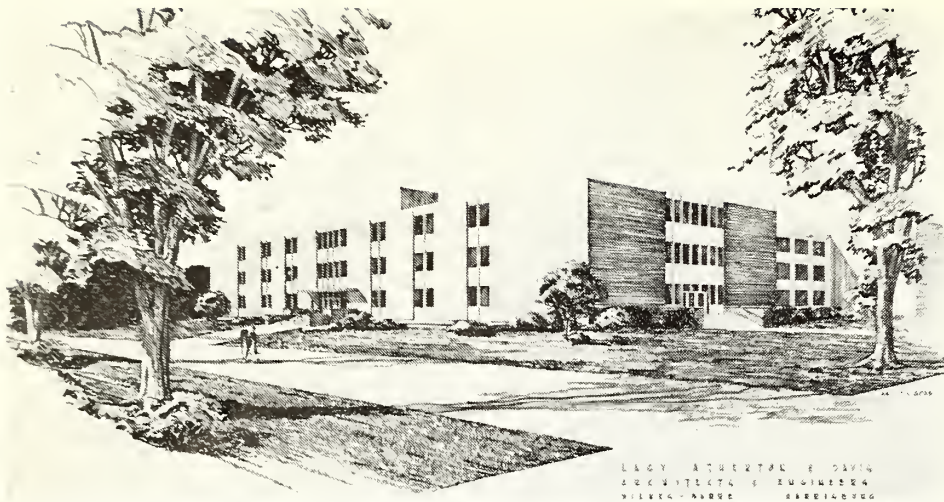
A University Service Award program to honor faculty and staff members who have given 25 or more years of service to the University has been inaugurated.

During the current academic year, some 280 faculty and staff members will be honored at ceremonies conducted in the several departments and Colleges.

President Walker initiated the program a week ago by presenting a certificate and a Penn State chair to Miss E. Anita Zellers who was a secretary for 40 years in the College and Agriculture and for the past four years in the office of General Education. Miss Zellers has given the most service of all those to be honored this year.

Of those to receive awards this year, 63 have been employed for 35 years or more and 10 have given 40 years service or more. In the future, awards will be presented in the year in which each employee reaches his 25th year of service.

To be honored Sunday, Dec. 1 by the College of Business Administration at a party in the Conference Center are Dr. R. Hadley Waters (27 years), Dr. Franklin H. Cook (26), and George G. R. Lucas (25). Other affairs to be held in December will include those to be given by the College of Agriculture, by the departments of Physical Plant Planning and Construction and Maintenance and Utilities, and by the Office of Admissions and Registrar.



Bids will be opened Dec. 4 by the General State Authority for construction of this addition to Willard Building which will have enough classroom space to accommodate 3,285 students at a time. It will be built east of the present building.

Construction Progress

Bids were received Nov. 20 for construction of the Conference Center near the Nittany Lion Inn and bids for the completion of Willard Building will be received Dec. 4 by the General State Authority. Bids for the Conference Center were under the allotment for construction and contracts were awarded.

The addition to Willard Building will help to solve a pressing problem in classroom space by providing 36 classrooms ranging from 44 seats to 200, accommodating a total of 3,285 students. It will be a four-story structure, 71 feet by 202 feet and will be located east of the present Willard Building. All classrooms will be equipped for television reception.

Other construction projects on the campus are in various stages of completion, most on schedule, some behind schedule. Residence Halls in

the Pollock Circle and East Halls areas are enclosed, thus permitting interior work during the winter. Completion date is June 15.

The south wing of Recreation Building is somewhat behind schedule but is being closed in rapidly. The recently started extension of the main part of the building is proceeding well, the first big truss being erected last week.

The Electrical Engineering addition is proceeding well, also, is now enclosed for winter work and is roofed. The three Arts and Humanities Units are in various stages of progress, the Music unit being furthest advanced. Unit 2 of the Education and Psychology complex is progressing excellently and the May 1 completion date will be met if work continues at the same pace.

dining room "A." Prof. Robert E. Leeper, on "Newer Concepts in Personality: After Freud—What?"

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. H. H. Calvit, on "Some Problems in Biomechanics."

Mineral Industries Colloquium, 3:55 p.m., Mineral Industries Auditorium. E. W. Pehrson, professor of mineral economics, Columbia University, on "Minerals and National Defense."

Tuesday, Dec. 3

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Christmas program by Meditation Chapel Choir, 8 p.m., The Chapel.

Wednesday, Dec. 4

Phi Beta Kappa Founders Day banquet, 6:30 p.m., Nittany Lion Inn. Dr. Maurice B. Cramer, speaker, on "Teaching American

THE ARTS



exhibition

A one-man show of paintings and prints by West Coast artist Henry Rasmussen will continue through December 7 in Gallery 105 in Temporary Classroom Building. Mr. Rasmussen, known for his techniques of monotype printmaking, is author of the book, "Printmaking with Monotype." His paintings have been shown in many galleries and are parts of many permanent collections.

ARTISTS SERIES

The Artists Series Concert to have been given by Soviet cellist, Mstislav Rostropovich, Nov. 23 has been rescheduled for Friday, December 6, at 8:30 p.m. in Schwab Auditorium. Patrons who have tickets may, of course, retain them for the Dec. 6 performance. Those who had tickets and wish to return them for refund must do so by Dec. 4, at 4 p.m. Beginning 9 a.m., Dec. 5, all these tickets will be distributed, both student and non-student, if any are turned in. Students are urged to return theirs if they do not wish to hear the concert; however, these tickets will be offered to students and will not be sold.

chapel choir

The Meditation Chapel Choir will give its annual Christmas program in the Helen Eakin Eisenhower Chapel Tuesday, Dec. 3, at 8 p.m.

alard workshop

The Alard String Quartet will conduct a workshop and concert Wednesday, Dec. 4, at 8:30 p.m. in Schwab Auditorium.

CALENDAR



Friday, Nov. 29

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. George Kapo, department of chemistry, Case Institute of Technology, on "The Liquid Phase Oxidation of Coal."

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. James E. Till, Physics Division, Ontario Cancer Institute, Toronto, Canada, on "Radio Biological Studies on Mammalian Cells In Vivo."

Sunday, Dec. 1

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. W. Norman Pittenger, General Theological Seminary, New York, on "Where God Meets Man."

Monday, Dec. 2

Faculty Luncheon Club, 12:30 p.m., HUB

Life and Civilization to the Descendants of Pericles."

Thursday, Dec. 5

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Biophysics Seminar, 2:20 p.m., Room 105 Walker. Dr. Herbert Taylor, professor of botany, Columbia University, on "Patterns of Replication of DNA Molecules of Chromosomes."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. R. S. Juvet, University of Illinois, on "The Determination of Physical Constants by Gas Chromatography."

Accounting Faculty Seminar, 1:15 p.m., Room 211 Boucke. Carman G. Blough, on "Accounting for Long-Term Leases."

Friday, Dec. 6

Interlandia Folk Dances, 7:30 p.m., Room 302 Engineering "A." Christmas party.

Artists Series program by Mstislav Rostropovich, cellist, 8:30 p.m., Schwab Auditorium.

Programed learning research

A report on a cooperative research project between the University Division of Instructional Services and the Department of English and Mathematics has been issued by UDIS.

Titled "Comparative Research on Methods and Media for Presenting Programmed Courses," the report presents a discussion of programmed learning and new media; describes in detail the experiments conducted in an algebra program and in an English grammar program, with the conclusions reached from the experiments; and with observations, judgments, and suggestions for further research.

The research was conducted with aid of a grant from the U. S. Office of Education, under NDEA Title VII.

Dr. C. R. Carpenter and Leslie P. Greenhill, then director and associate director of UDIS, directed the research. Cooperating in the mathematics research program were Frank Kocher, Ralph T. Heimer, John J. Lottes, Albert Erskine, Hilda F. Duncan, and James B. Bartoo, head of the department.

The English research project had the help of Dr. John S. Bowman, Agnes R. McElwee, James P. Stewart, Ann Funk, and Dr. Henry W. Sams, head of the department.

Others, from UDIS, cooperating in the research were John Quackenbush, Richard E. Spencer, Luther F. Kepler, Jr., James Vitale, Ronald Slawson, Joseph Servello, and various graduate assistants and production staff members.

The report deals with seven specific subjects and problems:

1. Critical analysis of some assumptions of programmed learning and implications for adapting and using the "new" media.
2. Development of programmed materials for research purposes.
3. Experimental comparisons of external-pacing and individual-pacing for the study of programed materials using different methods and media for presentations.
4. Comparisons of different rates of pacing and of individual and group conditions of study.
5. Comparisons of programed televised presentations with teaching-machine presentations, and instructor-taught classes.
6. Studies of the effects of the minimum group of two students studying programs in comparison with individual study.
7. Preliminary analyses of quantitative and verbal abilities of students relative to achievements using programed courses, and of a personality factor relative to these study conditions.

General conclusions reached were the following:

1. It appears feasible to adapt and use those media which require externally paced methods for presenting programed materials to relatively homogeneous groups of learners without adversely affecting their achievement.
2. Students of the populations sampled have a relatively wide tolerance for variations in pacing rate.
3. Closed-circuit television supplemented by printed materials can be used effectively for the presentation of programed instructional materials to groups of students. This opens up possibilities for the wide distribution of programed instruction and for the integration of programed sequences with lecture-demonstrations in televised instruction. The use of programed materials on television, supplemented by printed response forms, provides an excellent means for obtaining active participation on the part of all learners and for providing immediate reinforcement of their responses.
4. Results on the pairing of students to study programed materials equal those obtained with individual study methods. The effects of this pairing procedure on motivation and attitudes are not yet conclusive and require further investigation.
5. Sampling of two content areas, mathematics and English grammar, yielded essentially the same results on all experimentally studied variables.
6. In general, this research challenges the classical assumptions that the best method of using programed materials is that of self-pacing and individualized study. In other words, a learner's own speed may not be the optimum rate. The research shows some of the possibilities of using the "new" media and combinations of media with paced programs for instructing large numbers of students simultaneously in time-limited periods of instruction.

Mook on telecast

Dr. Maurice A. Mook, professor of anthropology, will appear on Lycoming College's "College of the Air," television program which is seen locally over WGAL-TV, Lancaster, Channel 8, from 9 to 9:30 a.m. The program, titled "Quaker Folklore," will be seen December 19 and will be in the form of an interview by Prof. Robert H. Byington, chairman of the English department, at Lycoming. Dr. Mook has had a continuing interest in Quaker folklore and has written many articles for folklore magazines.

Fall commencement

The University's Fall Term Commencement will be held Saturday, December 14, at 10:30 a.m. in Recreation Building.

PERSONNEL MATTERS



Dr. Warren C. Robinson, associate professor of economics, is currently on leave in Aruba, The Netherlands Antilles, where he is giving a seminar sponsored by a Dutch Subsidiary of the American Oil Co.

Dr. Budugur Lakshminarayana, research student at Liverpool University, England, has been appointed visiting assistant professor of aeronautical engineering in the Ordnance Research Laboratory. He is a native of the Mysore State, India, and is a graduate of Mysore University. He was granted the degree of doctor of philosophy in turbomachinery from Liverpool University.

Dr. Willis L. McClellan, field agronomist at Centre County Canning Corp. at Centre Hall, has been named assistant professor of agronomy. He received all three degrees from Penn State and has been both a graduate assistant and assistant county agent previously.

Mrs. Helen A. Guthrie, assistant professor of foods and nutrition, has been granted a leave of absence for the Winter Term, 1964, to do library research on nutrition.

Christmas Trees

Orders for Christmas trees will be accepted by the Maintenance and Utilities Department until December 6, 301 Old Main. They may be ordered by Interdepartmental Transfer and the order should state the size of tree and the location for delivery. Prices of trees are as follows: 3-4 ft. trees, \$3.00; 4-5 ft. trees, \$4.00; 5-6 ft. trees, \$5.00. Larger trees, 8-12 ft., are available in the price range of \$10-\$15.

In the interest of safety, the Department of Security recommends the following National Fire Protection Association procedures for the use of Christmas trees:

1. The tree trunk should be immersed in water constantly.
2. Keep the tree away from heat sources and heavy traffic areas.
3. If electric light sets are used, the cord, connections, and sockets should be sound and bear the Underwriters Laboratories label.
4. Tree lights should be turned off when offices are closed.
5. Open flames or smoking should be prohibited near the tree.

WYOMISSING

The Wyomissing Center is conducting four afternoon "Learning in Action" open houses for high school juniors and seniors. The fourth program will be held Dec. 2. Prospective students see first-hand various aspects of the learning experience at the Center. The program consists of an illustrated description of the center's offerings in drafting and design technology, electrical and electronics technology, a tour of the center, and discussions.

SHELTER PROGRAM

The Shelter Management Instruction Course at Norristown and Philadelphia, which has been developed in cooperation with Civil Defense officials, will include a 20-hour session in an actual or simulated fallout shelter. While housed in the shelter, enrollees will be issued water and food rations and will participate in discussions, demonstrations and other instructional activities designed to illustrate and help provide solutions for problems likely to be encountered in shelter living.

PURSES

Women faculty and staff members are urged not to leave their purses in exposed places when they leave their offices, whether another person is in the office or not. William C. Pelton, director of security, says that the number of purse-thefts from desks has increased recently and advises that the purse should be taken along when leaving the office or else locked securely away.

FLC MEETING

The Faculty Luncheon Club will be addressed by Milton J. Shapp, president of Jerrold Electronics, Monday, Dec. 2, at 12:30 p.m. in HUB Dining Room "A." He will speak on "A Dynamic Program to Revitalize the Economy of the Keystone State."

SENATE

The University Senate will meet Tuesday, December 3, at 3:55 p.m. in Room 121 Sparks.

BOOKS



In Preparation

The following members of the staff of the department of psychology are preparing books currently:

Charles Cofer, "Motivation."

John F. Hall, "Psychology of Learning."

David Palermo, "Word Association Norms."

Francis Whaley and Jerome E. Singer, "Book of Readings for Introductory Psychology."

Herschel Leibowitz, "Illusions of Perception."

George Guthrie, a book on intercultural variables in personality.

Dale Harris, children's drawings as measures of intellectual maturity.

Robert B. Freeman, "Perception."

J. M. Warren, "Frontal Granular Cortex in Behavior."

Editor

William A. Williams, professor of industrial education, is editor of a book titled, "Accident Prevention Manual for Shop Teachers," to be published by the American Technical Society of Chicago. The 550-page manual is a professional publication of the National Association of Industrial Teacher Educators. Publication date is Dec. 6.

Reprints

Dr. George F. Wislicenus, head of the department of aeronautical engineering and director of the Garfield Thomas Water Tunnel, is author of a book which will be reprinted in paperback by Dover Publications, Inc., with an additional volume of five new chapters. Published orig-

inally in 1947 by McGraw-Hill, the book is titled "Fluid Mechanics of Turbomachinery." Publication is expected by the middle of 1964.

Dr. Heinz K. Henisch, professor of applied physics, Materials Research Laboratory, is author of "Electroluminescence," which will be published soon in Japanese and Russian translations. The book was published originally by Pergamon Press in 1962.

Text committee

Dr. Donald G. McGarey, professor of education, and Clifford A. Nelson, coordinator for religious affairs of the University, have been appointed by Dr. Charles H. Boehm, State Superintendent of Public Instruction, to a special committee to study textbook treatment of minority groups in social studies textbooks, to assess existing evaluations of textbooks, and to recommend appropriate action to the Department of Public Instruction.

Dr. McGarey will be chairman of the committee.

The Committee was organized because of the importance of intergroup education and the significant role of textbooks in providing students with accurate facts and sensitively written accounts about minority groups, says the D.P.I. Newsletter.

Sprague in office

Dr. Howard B. Sprague, head of the department of agronomy, was installed Nov. 20 as 55th president of the American Society of Agronomy, succeeding Dr. M. B. Russell, director of the Agricultural Experiment Station of the University of Illinois.

faculty BULLETIN

Vol. 51, No. 20 Nov. 29, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Greig honored

Dr. Joseph W. Greig, visiting professor of geochemistry since 1960, has been honored in the naming of an iron sulfide mineral which was discovered in drill cores in San Bernardino County, California.

The name Greigite, approved by the New Mineral Names Committee of the International Mineralogical Association, will be applied to the mineral, a spinel form of Fe_3S_4 . The name was proposed by scientists in the Branch of Experimental Geochemistry and Mineralogy, U. S. Department of the Interior.

Dr. Greig served from 1922 to 1960, when he retired, at the Carnegie Institution in Washington, D. C., doing research in petrology. A graduate of Queen's University, Canada, he received the master's degree from Columbia University and the doctorate from Harvard. During World War II he was a consultant with the National Defense Research Office; in 1945 was a physicist with The Johns Hopkins University, and was a visiting research associate at Penn State in 1956-57.

The mineral Greigite occurs in tiny grains and crystals in certain clay layers in the San Bernardino County site. The existence of such a mineral has been postulated for some years. To scientists it seems probable that it was formed by bacterial reduction of iron-bearing waters in anaerobic bottom sediments of an alkaline lake. It has magnetic properties like magnetite.

Library gift

Mr. and Mrs. Mervin A. Fay, of Narberth, near Philadelphia, have given \$2,000 to endow a residence hall library in the Pollock Halls area. The gift was made as a memorial to their daughter, Karen Jane Fay, who lived in the Pollock Halls area as a student here from 1961 to 1963.

Mr. Fay is a 1937 graduate of the University in ceramics.

The library will be the third established since the program began last year to provide reference materials in the residence halls areas to supplement Pattee Library resources. The Allegheny House library was established by Mrs. William D. Stevenson, of Pittsburgh, as a memorial to her husband, a Pittsburgh engineer before his death in 1959. He was an 1899 graduate of the University.

Jefferson House library was also established last year, by the people of Jefferson County in a fund campaign headed by Pomona Grange. It is hoped eventually that many more residence halls will have such libraries.

Ralph W. McComb, University librarian, explains that the purpose of the libraries is to make reference materials available to the students to use immediately as their need arises.

Scranton campus

Plans for development of a Commonwealth Campus in the Scranton area will proceed immediately, President Walker announced last weekend. The campus will be located in the Dunmore area on a 20-acre tract acquired several years ago.

The Wilkes-Barre Center will continue to operate in the Guthrie St. school building in Wilkes-Barre.

The new campus area is located at an entrance to the Anthracite Expressway, convenient to many area students.

The Scranton Advisory Board is completing plans for a fund-raising campaign to be initiated in the near future, and the University has requested funds from the General State Authority for constructing a classroom-laboratory building. G.S.A. has authorized \$631,561 for the project. The initial project will be designed to accommodate 400 full-time students.

Since 1953 both the Scranton and Wilkes-Barre Centers have offered two-year programs leading to the associate degree, but in both areas Penn State has conducted evening programs for many years. Enrollment at the Scranton Center, now located in a school building in the city, is 127 for full-time credit courses and 151 in non-credit courses.

Enrollment Study

The number of full-time students in 1,074 colleges and universities in the United States has increased by 6.4 per cent over last year, the annual enrollment study conducted by Dr. Garland G. Parker for the educational publication, "School and Society," indicates. Grand total enrollment, which includes part-time and evening students, increased by 6.3 per cent.

The summary shows that Penn State remains the 12th largest university in full-time enrollment and 16th in grand total. The University of California, with 62,240 students, is largest in full-time, and City University of New York, with 101,247, largest in grand total. Penn State is the largest in both categories in Pennsylvania.

Freshman enrollment this fall was up 3.8 per cent over last year (compared to a gain of only 0.3 per cent last year), in spite of a "pool of 18-year-olds some two per cent smaller than the comparable group" of a year ago. Dr. Parker suggests that this fact indicates that the percentage of college-age youth actually attending is still on the increase. He points out

that 20 per cent more young men and women may apply for campus admission in 1964 and another 12 per cent in 1965.

Dr. Parker said that "If the academic, physical and financial resources to take care of this host of expected collegians are not already in a state of preparation, it is too late."

Enrollment in 74 large public universities increased by 8 per cent; in 60 large private universities, 3.9 per cent; in 148 teacher-training colleges, 9.7 per cent; in 684 arts and sciences colleges, 4.9 per cent; and in 73 technological and related schools, 4.5 per cent.

The Middle Atlantic States showed an increase of 5.2 per cent but Puerto Rico (11 per cent), the Mountain states (9 per cent) and the Pacific area (8.9 per cent) showed the most increase.

No other Pennsylvania college or university is listed in the first 30 in full-time enrollment; in grand total, Temple is just behind Penn State, in 17th position, with 23,030, compared to Penn State's 25,543.

THE ARTS



artists series

The concert by cellist Mstislav Rostropovitch for the Artists Series, originally scheduled for Nov. 30, will be heard tonight (Friday) at 8:30 p.m. in Schwab Auditorium.

The next Artists Series program will be given Jan. 24 by The Festival Associates, Thomas Dunn director, in music by Bach, de Falla, and Poulenc.

exhibits

Paul Edmonston, associate professor of art education, is represented in the national exhibition, "Drawings, U.S.A., 1963" sponsored by the St. Paul Art Center, St. Paul, Minn. Jurors Morris Graves, Una Johnson, and William Woolfenden selected 239 works from 3,500 entries. After the exhibition, a selection of 75 works will be circulated to museums in Canada and the U. S.

An etching titled "City Fragments" by Harold Altman, associate professor of art, is included in the U. S. Information Agency's "U. S. Graphics Exhibition" which opens December 7 in Moscow. The exhibition will tour the Soviet Union while its Soviet counterpart will be exhibited in this country.

The Historical Society of York County is exhibiting paintings by Andrew W. Case, professor emeritus of art. The exhibition will run until the end of the month and includes 34 paintings done since 1937. Case retired in 1962, after teaching art since 1926, and is now dean and part-time instructor at the York Academy of Arts.

Chess move

A Russian chess master, I. Rosenthal, writing in a magazine, "Chess Bulletin," published in the Soviet Union, has praised a defense developed by Donald Byrne, instructor in English and coach of the Penn State chess team.

Rosenthal said that "Byrne line in the Dragon variation of Sicilian defense," is the best he had seen. Byrne used the defense not only in the U. S. Championships but also in tournaments in Bulgaria and Argentina.

The line is also discussed by English chess analyst, Leonard Barden, in the publication, "Chess."

Byrne describes, in two pages of analysis, two award-winning games played in the recent Junior championships held in the HUB

PERSONAL MAIL

Because of limitations of personnel and facilities, the University Mail Service does not handle the personal mail of University faculty and staff members and requests that all such mail be deposited in regular U. S. mail boxes on campus or in the community. There are 16 mail boxes on the campus, six of which are drive-up boxes.

Stanley H. Campbell, vice president for business, points out that last June when the Mail Service began its pilot study of how to handle outgoing University mail, personal letter-size mail outnumbered the outgoing University letter-size mail two-to-one.

Since this volume of personal mail would have imposed an unjustifiable expense on the University for the facilities and personnel necessary to handle such mail, it was decided to limit the responsibility of the University Mail Service to the handling of University mail only.

If personal mail should happen to be included with outgoing University mail, it will be returned to the sender, Campbell says.

COMPUTER WORKSHOP

An Introductory Computer Workshop will be provided by the University Computation Center Dec. 16-20. Further information may be obtained by calling the Center, UN 5-7597.

CHRISTMAS SERVICE

The annual Midnight Christmas Service will be held Saturday, Dec. 7, at 10:30 p.m. in Schwab Auditorium, opening with a prelude by organist Leonard Raver. The Chapel Choir, assisted by instrumentalists, will present works of Gabrieli, Buckner, Dering, Britten, and Lenel. The Rev. Richard E. Wentz will be in charge of the service.

WARNING

Trees and shrubbery on the University's lands are in effect part of the State lands and anyone apprehended removing them except for official University business reasons will be subject to a fine and imprisonment. The public is especially cautioned against cutting trees or parts of trees for Christmas decorations.

Grades due

Grades for all students, including graduate students, who are to receive degrees at Fall Term Commencement Exercises must be reported to the Registrar's Office, Room 4 Willard, not later than 9 a.m., Friday, Dec. 13.

All other grades must be reported within 48 hours after the final examination. Deadline for all grades, including research grades, is 9 a.m., Sunday, Dec. 15.

Final examinations will end at 9:55 p.m., Thursday, Dec. 12.

CALENDAR



Friday, Dec. 6

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. H. D. Wright, associate professor of mineralogy, on "Neutron Activation Analysis and Its Potential Application in Research in the Mineral Industries College."

Artists Series program by cellist Mstislav Rostropovich, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Schwab Auditorium.

Saturday, Dec. 7

Varsity basketball, vs. Maryland, 8 p.m., Recreation Building.

Chapel Choir Christmas Program, 10:30 p.m., Schwab Auditorium.

Sunday, Dec. 8

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Robert G. Jones, department of religion, George Washington University, on "Faithful Doubt."

Monday, Dec. 9

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. G. Sharma, on "A New Method of Characterizing Solid Fuel Propellants under Combined States of Stress."

Fall Term classes end, 9:55 p.m.

Tuesday, Dec. 10

Beginning of Fall Term examinations. Conclude Thursday, Dec. 12.

Friday, Dec. 13

College of Agriculture Faculty meeting, 3:55 p.m., Room 109 Armsby.

Faculty Women's Club Pot Luck supper, Recreation Building.

Christmas program

The 34th Annual Christmas Sing sponsored by the department of German will be held Sunday from 7 to 8 p.m. in Schwab Auditorium.

Dr. Werner Striedieck, associate professor of German, will read the Nativity story according to St. Luke, assuming the role played by George Wurfl, professor emeritus of German, who initiated the program in 1930. The Christmas Sing has become a tradition, attended by many faculty and area residents each year.

The musical program will include organ music by George Ceiga, University organist; a performance by Nancy Gullo Mann, cellist, of Handel's "Concerto in B Flat"; a rendition by Margaret Hayes of Handel's "Hark, 'Tis the Linnet" from "Joshua," accompanied by Donald Hopkins, violin. Overda Page, flute. Leonard Feldman, cello, and Dorotea Roscoe, piano; and the audience singing traditional carols.

Wilburn M. Newcomb, assistant professor of German, will tell about "Christmas in a Small Town in North Germany."

ENGINEERS —

(Continued from page four)

ranks each item according to the number of "encourages" replies.) Enrollment for advanced courses (2255); Attending company training courses (2092); Writing technical papers (1967); Holding office in professional societies (1601); Attending professional meetings (1675); Securing professional license (930); Pursuing your own research (751); Educational leave of absence (609); Does your company allow you to attend in-service courses on company time?

Seventy-nine per cent (1937) indicated that the company allowed them to attend in-service training courses on company time.

11. *Does your company allow you to attend university courses on company time?* Forty-four per cent (1067) said "yes."

12. *Does your company conduct in-service training courses?* Eighty-six per cent (2123) said "yes."

13. *What is your opinion of your immediate supervisor's attitude toward additional education and training?* Forty-five per cent (1144) felt that the supervisor stimulated them. Fifty-three per cent (1343) believed that the supervisor was non-committal. One per cent (34) felt the supervisor discouraged additional training or education.

14. *Is additional post-graduate work required for promotion or salary increase?* Eleven per cent (279) indicated "yes."

15. *Does your company have an educational assistance program?* Ninety-eight per cent (2500) said "yes."

16. *Has your company's policy on educational assistance motivated you to undertake graduate work?* Seventeen per cent said "yes"; 34 per cent indicated it was a partial motivation; 49 per cent said it had no effect.

17. *Does your company pay some of the tuition costs?* Sixty-five per cent said the company pays 91-100% of tuition costs; 81 per cent said the company pays 70 per cent or more.

18. *To be included in the educational assistance program, does the college or university course have to be job-related?* Seventy-nine per cent (1945) said the course must be job-related.

EDUCATIONAL NEEDS OF ENGINEERS: The respondents were asked to indicate on a three point scale, "should have"; "could use," or "don't really need" their need for each of 141 different subjects in the Basic Sciences; Engineering Sciences; Engineering Analysis, Design, and

Systems; and Communications. Combining the results of the two scale points, "should have" and "could use" the engineers indicated the following subjects were of most concern to them:

Basic Sciences: Mathematics—Probability and Statistics—71%; the following mathematical subjects were each within the 50 to 60% range: Calculus, Differential Equations, Numerical Analysis, Partial Differential Equations, Vector and Tensor Analysis, Fourier Series and Integrals, Linear Algebra, Modern Algebra, Statistical Inference. *Physics*—Review of College Physics—47%; Solid State Physics—51%.

Engineering Sciences—Engineering Analysis—63%; The following subjects were within the 55 to 60% range: Computer programming analog; Computer Programming Digital; Electronics, Heat Transfer; Servomechanisms. Subjects between the 50-55% bracket were: Design of Experiments, Engineering Economics, Information Data Processing, Heat Transfer, and Shock and Vibration.

Engineering Analysis, Design and Systems—subjects in the 44-51% range were: Systems Engineering, Instrument Measurement, Process Control, Program Evaluation and Review Techniques, Electrical Circuits Design Logic, Automation.

Communications—subjects in the 70-76% range were: Technical Report Writing, Rapid Reading, Oral Presentation of Statistical and Technical Reports, Effective Communication in Organization. Those in the 50-69% range were: Conference Leadership, Public Speaking, Business Letter Writing, Listening Skills, Composition and Rhetoric.

Management—The engineers were also asked to indicate, by the same type of response, their needs relative to various areas of management. The following areas were most frequently noted as "should have" or "could use" falling within the 52-63% range: Human Relations Skills, Business Law, Understanding Individual and Group Behavior in Work Situations, Analyzing Organizational Effectiveness, Manufacturing Cost Reduction, Supervisory Training from Employee Development, Organization and Management for Purchasing Operations, (Many other topics were in the 45-51% range).

Social Science and Humanities—The respondents indicated their needs in the areas of Social Science and Humanities, both for their work and leisure. The various subjects are

ranked and indicate their need for work, and leisure subjects: *Work*—1. Logic (1351); 2. English Composition (1262); 3. Ethics (1057); 4. Psychology (1050); 5. Economics (991); 6. Community and Public Relations (1331). *Leisure*—1. Fine Arts—Music (1504); 2. Literature (1472); 3. Psychology (1405); 4. Logic (1402); 5. Philosophy (1387); 6. Community & Public Relations (1331).

Seminars—The need for Seminars on various subjects brought the following response: Technology and Economics—44%; Technology and Human Values—45%; Humanities in a Technical Society—39%.

WHO WERE THEY?

The respondents in this study were asked to indicate the field in which they received their undergraduate degree and the field in which they were presently working. Below are ranked the six most frequently used fields in which the undergraduate degree was received: 1. Mechanical Engineering 809; 2. Electrical—Electronics 506; 3. Other Fields 296; 4. Chemical Engineering 196; 5. Aeronautical Engineering 159; 6. Electrical—Power 139.

When the same group was analyzed in terms of their *present field of work*, the following ranked order occurred: 1. Electrical—Electronics (538); 2. Mechanical Engineering (527); 3. Other Fields (279); 4. Engineering—General (269); 5. Aeronautical Engineering (173); 6. Chemical Engineering (129).

The shift in ranks between the Undergraduate degrees and current field of work now indicates the degree of mobility in the engineering and scientific field.

Where Degrees Earned—Bachelor's degrees were earned by 1,018 persons between 1955 and the present; by 911 between 1945 and 1954; and by 312 between 1935 and 1944.

Functions—When engineers were asked to indicate how much time they spent in the functions listed below, the following ranks were obtained: 1. Design (1448); 2. Development (1399); 3. Administration (1107); 4. Testing (993); 5. Consulting (953); 6. Management—technical (870); 7. Research—applied (762); 8. Economic evaluation (523); 9. Sales application engineering (407); 10. Operations and Production (366).

Activities—When engineers were asked to indicate how much time they spent in the activities listed below, the following ranks were obtained: 1. Conferences (2082); 2. Technical Report Writing (1623); 3. Corres-

(Continued on page six)

THE ARTS



artists series

The concert by cellist Mstislav Rostropovitch for the Artists Series, originally scheduled for Nov. 30, will be heard tonight (Friday) at 8:30 p.m. in Schwab Auditorium.

The next Artists Series program will be given Jan. 24 by The Festival Associates. Thomas Dunn director, in music by Bach, de Falla, and Poulenc.

exhibits

Paul Edmonston, associate professor of art education, is represented in the national exhibition, "Drawings, U.S.A., 1963" sponsored by the St. Paul Art Center, St. Paul, Minn. Jurors Morris Graves, Una Johnson, and William Woolfeenden selected 239 works from 3,500 entries. After the exhibition, a selection of 75 works will be circulated to museums in Canada and the U. S.

An etching titled "City Fragments" by Harold Altman, associate professor of art, is included in the U. S. Information Agency's "U. S. Graphics Exhibition" which opens December 7 in Moscow. The exhibition will tour the Soviet Union while its Soviet counterpart will be exhibited in this country.

The Historical Society of York County is exhibiting paintings by Andrew W. Case, professor emeritus of art. The exhibition will run until the end of the month and includes 31 paintings done since 1937. Case retired in 1962, after teaching art since 1926, and is now dean and part-time instructor at the York Academy of Arts.

Chess move

A Russian chess master, I. Rosenthal, writing in a magazine, "Chess Bulletin," published in the Soviet Union, has praised a defense developed by Donald Byrne, instructor in English and coach of the Penn State chess team.

Rosenthal said that "Byrne line in the Dragon variation of Sicilian defense," is the best he had seen. Byrne used the defense not only in the U. S. Championships but also in tournaments in Bulgaria and Argentina.

The line is also discussed by English chess analyst, Leonard Barden, in the publication, "Chess."

Byrne describes, in two pages of analysis, two award-winning games played in the recent Junior championships held in the HUB

PERSONAL MAIL

Because of limitations of personnel and facilities, the University Mail Service does not handle the personal mail of University faculty and staff members and requests that all such mail be deposited in regular U. S. mail boxes on campus or in the community. There are 16 mail boxes on the campus, six of which are drive-up boxes.

Stanley H. Campbell, vice president for business, points out that last June when the Mail Service began its pilot study of how to handle outgoing University mail, personal letter-size mail outnumbered the outgoing University letter-size mail two-to-one.

Since this volume of personal mail would have imposed an unjustifiable expense on the University for the facilities and personnel necessary to handle such mail, it was decided to limit the responsibility of the University Mail Service to the handling of University mail only.

If personal mail should happen to be included with outgoing University mail, it will be returned to the sender, Campbell says.

COMPUTER WORKSHOP

An Introductory Computer Workshop will be provided by the University Computation Center Dec. 16-20. Further information may be obtained by calling the Center, UN 5-7597.

CHRISTMAS SERVICE

The annual Midnight Christmas Service will be held Saturday, Dec. 7, at 10:30 p.m. in Schwab Auditorium, opening with a prelude by organist Leonard Raver. The Chapel Choir, assisted by instrumentalists, will present works of Gabrieli, Bruckner, Dering, Britten, and Lenel. The Rev. Richard E. Wentz will be in charge of the service.

WARNING

Trees and shrubbery on the University's lands are in effect part of the State lands and anyone apprehended removing them except for official University business reasons will be subject to a fine and imprisonment. The public is especially cautioned against cutting trees or parts of trees for Christmas decorations.

Grades due

Grades for all students, including graduate students, who are to receive degrees at Fall Term Commencement Exercises must be reported to the Registrar's Office, Room 4 Willard, not later than 9 a.m., Friday, Dec. 13.

All other grades must be reported within 48 hours after the final examination. Deadline for all grades, including research grades, is 9 a.m., Sunday, Dec. 15.

Final examinations will end at 9:55 p.m., Thursday, Dec. 12.

CALENDAR



Friday, Dec. 6

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. H. D. Wright, associate professor of mineralogy, on "Neutron Activation Analysis and Its Potential Application in Research in the Mineral Industries College."

Artists Series program by cellist Mstislav Rostropovich, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Schwab Auditorium.

Saturday, Dec. 7

Varsity basketball, vs. Maryland, 8 p.m., Recreation Building.

Chapel Choir Christmas Program, 10:30 p.m., Schwab Auditorium.

Sunday, Dec. 8

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Robert G. Jones, department of religion, George Washington University, on "Faithful Doubt."

Monday, Dec. 9

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. G. Sharma, on "A New Method of Characterizing Solid Fuel Propellants under Combined States of Stress."

Fall Term classes end, 9:55 p.m.

Tuesday, Dec. 10

Beginning of Fall Term examinations. Conclude Thursday, Dec. 12.

Friday, Dec. 13

College of Agriculture Faculty meeting, 3:55 p.m., Room 109 Armsby.

Faculty Women's Club Pot Luck supper, Recreation Building.

Christmas program

The 34th Annual Christmas Sing sponsored by the department of German will be held Sunday from 7 to 8 p.m. in Schwab Auditorium.

Dr. Werner Striedieck, associate professor of German, will read the Nativity story according to St. Luke, assuming the role played by George Wurfl, professor emeritus of German who initiated the program in 1930. The Christmas Sing has become a tradition, attended by many faculty and area residents each year.

The musical program will include organ music by George Ceiga, University organist; a performance by Nancy Cullo Mann, cellist, of Handel's "Concerto in B Flat"; a rendition by Margaret Hayes of Handel's "Hark, 'Tis the Linnet" from "Joshua," accompanied by Donald Hopkins, violin, Overda Page, flute, Leonard Feldman, cello, and Dorthea Roscoe, piano; and the audience singing traditional carols.

Wilburn M. Newcomb, assistant professor of German, will tell about "Christmas in a Small Town in North Germany."

Colloquy

A College of Engineering Colloquy on the theme, "Recorded Information in Engineering Practice and Teaching," will be held Monday through Wednesday, Dec. 16-18. Chairman for the event is Thomas L. Minder, Engineering librarian.

A banquet will be held Tuesday, Dec. 17, at 6:30 p.m. in the Nittany Lion Inn, with Dr. Allen Kent, director of Knowledge Availability Systems Center at the University of Pittsburgh, as speaker. He will talk on "Information, Knowledge, and Wisdom." The banquet is open to anyone interested, and reservations must be made by Dec. 13 by calling UN 5-7644.

A topical outline of the Colloquy includes such subjects as "Information Definition"; "Retrieval Storage"; "Research and Searching Techniques"; and "Tools."

Second chair

Robert Wassman, graduate student in journalism, will be in charge of the University-originated television program, "Second Chair," seen daily, Monday through Friday, at 9 a.m. over WFBG-TV, Altoona.

Wassman, a native of Hilo, Hawaii,

and a graduate of Oregon State University, has been assistant to Richard Wiles, who conducted the program during the Fall Term.

Faculty members who have research projects, hobbies, travel activities, or points of view on current issues which might be of interest to the audience such a program has are asked to get in touch with Wassman, UN 5-3826, Room 111 Carnegie.

Library exhibit

An exhibit of documents and instruments related to the surveying of the Mason-Dixon Line, which separates Pennsylvania from Virginia and Maryland, is now on display in the Engineering Library in Hammond Building.

Developed by Harmor A. Weeden, associate professor of civil engineering, and Thomas L. Minder, Engineering librarian, the exhibit includes photo copies of documents in the Library of Congress, materials from Pattee Library, and surveying instruments similar to those used by Charles Mason and Jeremiah Dixon, English astronomers and mathematicians, to survey the border in 1763-67.

Teacher Examination

The University has been designated as a testing center for the 1964 nationwide administration of the National Teachers Examinations next February. Dr. A. V. Kozak, associate professor of education and test administrator, has announced.

College seniors preparing to teach and teachers applying for positions in school systems which encourage or require applicants to submit their scores on the National Teachers Examinations along with their other credentials are eligible to take the tests. The examinations are prepared and administered annually by Educational Testing Service, Princeton, New Jersey.

The designation of the University as a testing center for these examinations will give prospective teachers in this area an opportunity to compare their performance on the examinations with candidates throughout the country who take the tests in the nationwide administrations on Saturday, February 15, 1964.

At the one-day testing session a candidate may take the Common Ex-

aminations, which include tests in Professional Information, General Culture, English Expression, and Nonverbal Reasoning. In addition, each candidate may take one or two of the thirteen Optional Examinations which are designed to demonstrate mastery of subject matter in the fields in which he may be assigned to teach.

Applications for the examinations and Bulletins of Information describing registration procedures and containing representative test questions have been distributed to departments preparing teachers. They may be obtained also from Dr. Kozak at 176 Chambers Building, or directly from the National Teachers Examinations, Educational Testing Service, Princeton, New Jersey. Prospective teachers planning to take the test should secure an Application Blank and a Bulletin of Information promptly. January 17, 1964 is the last date for registration. This gives most seniors time to find out from their potential employing Boards of Education if the results of the National Teachers Examination are required.

Labor unit

Dr. Joseph G. Rayback, head of the department of labor education, and Helmut J. Goltz, associate professor of industrial relations, contributed much of the material for a booklet published by the Pennsylvania State Department of Public Instruction to be used for a unit of instruction on the subject of labor in the State's high schools.

Described as part of an "Economic Resource Unit," which will be followed up by a unit on the role of management in the economy, the material is intended to help students understand the economic system of the country.

Dr. Rayback's contribution is taken largely from his book, "A History of American Labor," published by Macmillan Co. and titled, "The Historical Role of American Labor."

Goltz is author of the section titled, "Labor and Management," which seeks to help the student "understand the purpose, process, and issues of collective bargaining in meeting the problems of labor and management." He served on the original Labor Movement Curriculum Committee appointed by the Superintendent of Public Instruction and was largely responsible for the editorial organization of the resource unit.

The other major contributor to the booklet was Sidney Wise, associate professor of government, Franklin and Marshall College.

Dr. Charles H. Boehm, superintendent of public instruction says in a forward, that "Labor as the largest numerical economic group and one of the productive resources has a significant and major role in our economy and society. For these reasons it is desirable for pupils to understand how labor is organized, how and why labor organizations developed, labor-management relations, and in what ways labor and economy are interrelated, and labor's relations to the community. Used wisely by the teacher, this Resource Unit can be a valuable aid to an objective study of labor in America."

No parking

Parking in Areas 6 and 8, on west campus, will be prohibited beginning Monday, Dec. 9 and those normally assigned to those areas have been reassigned to other areas nearby.

Construction of the Earth Sciences Building, just south of Mineral Sciences, will begin next week if the weather permits.

Engineers needs studied

Philadelphia area survey

The University is deeply concerned with the need for post-graduate professional education of engineers and scientists; as a first step toward filling this need the King of Prussia Graduate Center has been established.

That such a graduate center is both needed and keenly desired is demonstrated in the recent study conducted in the Philadelphia area by the Methods Research Section of Continuing Education. Data obtained from this study show that a high proportion of engineering and science graduates desire to further their education in formal or informal programs.

The Greater Philadelphia study is one of two current studies on the Continuing Professional Education for Engineers being directed by Dr. Samuel S. Dubin, associate professor of psychology in Continuing Education. One study is a state-wide survey of a randomly selected probability proportional stratified sample of over 2,000 engineers in 23 separate industrial categories. The Greater Philadelphia Study surveyed 2,575 scientific personnel including engineers, chemists, physicists and mathematicians in 19 companies who voluntarily completed the survey instruments. The response came largely from electronics, missile and space industries. The overall results of the Greater Philadelphia Study are summarized here. The results of the state-wide study will be reported later.

Mr. E. L. Keller, Director of Continuing Education, initially suggested that the study be made by the Methods Research Section, headed by Hugh G. Pyle. Dr. Dubin was assisted in the study by Dr. H. LeRoy Marlow, assistant professor of Management Training; Richard A. Swavely, District Administrator at King of Prussia; graduate assistants Gordon Gillette, Morgan Lewis, and Robert Vierck, in sociology, psychology, and management, respectively; and LeRoy Rivers, student assistant. Former Associate Dean Arthur Thompson and Dr. Wesley Houser of the Ordnance Research Laboratory provided invaluable assistance in organizing the Engineering Courses in Part II of the Survey.

The Colleges of Engineering, Mineral Industries, Business Administration and the Liberal Arts aided in the development of the questions, content, and procedure of the survey.

OBJECTIVES

The study sought (1) to determine the continuing educational needs of engineers and scientists; (2) to determine methods for improving continuing education programs for updating engineers and other scientists.

A number of conditions prompted the present study: (1) engineering knowledge and techniques have a rapid obsolescence; (2) the current rate of knowledge and technical innovation is accelerating rapidly and will double within the next 7 to 10 years; (3) if current trends continue, the numbers of graduate engineers will fall short by 11,000 per year of meeting needs by 1970; (4) strong personal motivation is required for an engineer to remain up to date in times of rapid technological change; (5) demand for engineers and their updating persists as economic activity continues at a high level; (6) rapid growth of research and development programs and expenditures require constant alertness to current developments in engineering; (7) industrial products and processes continue to become increasingly complex.

RESULTS

DEGREE WORK: The respondents were asked to indicate their attitudes toward formal and informal instruction:

1. Are you currently enrolled in a program leading to another engineering degree (in addition to that already earned)? Eighteen percent, or 451 engineers, indicated they were enrolled in programs leading to another degree, and of these 4 per cent wanted another bachelor's degree; 84 per cent a master's; and 12 per cent a doctor's.
2. If you are not currently enrolled, do you plan to enroll for another degree? Forty-four per cent, or 896, said "yes." Of those who said "yes," 10 per cent would seek another bachelor's degree; 75 per cent, a master's; and 15 per cent, a doctor's.
3. Does this position require continuing professional education? Of 1289 persons who answered the question, 849 or 66% said "yes."
4. Would you desire to enroll for another degree? A total of 1253 (of the 1289 who answered the question) said they wished to enroll for another degree, as follows: 165 bachelor's, 935 master's, and 153 doctor's. The area of greatest interest for all three

degrees was electrical-electronics; others of greater interest were mechanical, engineering-general, industrial, chemical, and fields other than engineering in the sciences and management.

5. If you are not enrolled for a degree or do not plan to enroll, why not? The following responses are listed in order of decreasing frequencies: Do not have time—322; Job does not demand more education—183; Not interested—137; Other—136; Can do better on my own—113; Too far from educational center—105; Cannot afford it—26.

6. Would you enroll for advanced formal courses offered locally if they were not counted as part of your degree program? Sixty-one percent or 1488 said "yes."

NON-CREDIT WORK: In a series of questions, the attitudes concerning non-credit course work were sought.

7. If non-credit courses were offered locally in your field, would you enroll? Fifty-nine per cent (1415) said they would enroll in non-credit courses. This indicates that engineers want job knowledge rather than course credits.

8. Would you take a course to update yourself if it were offered by an educational medium other than the formal classroom? The number who answered "yes" to the various media are: Education TV—808; Correspondence courses—756; Programmed instruction—696; Courses on records—287; Courses on tapes—268; Tele-talk—146; Two-way radio—111.

COMPANY ATTITUDE: A series of questions sought to determine what educational work the respondent was already involved in and what his company's policy or attitude was toward educational programs.

9. In the last four years, what training or education work, other than formal degree courses, have you participated in?

The rank order, with the number selecting each item, was as follows: engineering lectures and seminars (1071); None (841); In-service training courses (808); Special training courses (619); Management workshop or courses (395); Short refresher courses (311); Short courses by professional societies (260); Student-teacher conferences (85); Liberal Arts and humanities workshop (79).

10. What is your opinion of your company's attitude toward the following educational areas? (The listing

(Continued on page five)

ENGINEERS —

(Continued from page five)

pondence (1441); 4. Planning and Organization (1428); 5. Coordination (1329); 6. Consulting (1317); 7. Supervision (1235); 8. Technical Calculations, non-routine (1150); 9. Laboratory work (1066); 10. Self-Development (865).

Ages—The ages of the respondents were: 25-29 years (621)—25%; 30-34 years (522)—21%; 35-39 years (578)—23%; 40-44 years (364)—15%.

Professionalism—Fifteen per cent, or 376, indicated that they were registered professional engineers. Thirty-six per cent, or 854, plan to take the PE examination. Forty-one per cent, or 958, of those who are not professional engineers indicated that they would enroll in a program to prepare them to take the professional engineering examination.

Keeping Up to Date—The four most frequently mentioned sources of information used by engineers to keep up to date are: 1. Scientific and technical journals (2509); 2. Technical book and reports (2414); 3. Manufacturer's literature (2207); 4. Company and industry practices (1751).

COMMENTS

Many respondents, although not engineers, (scientists, mathematicians, physicists, and chemists) were interested in continuing educational programs now under consideration in the King of Prussia Center.

When the rankings of the undergraduate majors and the present work of the respondents are compared it is

evident that there is considerable shifting of fields after graduation. Engineering is a mobile profession; continuous updating is therefore urgently required. When the respondents indicated the percentage of work time spent on various *functions* the following ranked high: administration, consulting, management, and economic evaluation. These are not ordinarily covered in course work in engineering schools; therefore, the unusual interest also indicates strong need for continuing education.

In the summary showing the ranking of *activities* in which the respondents engage within the year, the first seven are largely administrative in nature (and collectively occupy 56% of his time), yet these also are areas in which undergraduate training is not generally provided. Again continuing education to meet these needs is suggested.

Job knowledge, rather than course credit, seems to be a strong motive for continuing education.

A high percentage of the respondents think their immediate supervisors are non-committal about the employees getting further education and training. It is recognized, however, that the supervisor's responsibility is chiefly to meet production schedules.

The respondents indicate a very strong need for skills in conference leadership, business letter writing, communication, oral presentation of technical reports, public speaking, rapid reading, and technical report writing, all areas in which the engineer received a minimum of instruction.

Youth work

Thirteen campus patrolmen and three administrative staff members in the department of security of the University have completed a 20-hour course of instruction for "Police Work with Children and Youth" provided by the State Department of Public Instruction through the Public Service Institute of Pennsylvania.

They were part of a group of 59 local police officers of Centre, Clearfield, Huntingdon, and Mifflin Counties and others in the area concerned with youth work, including Judge R. Paul Campbell, Mayor Roy D. Anthony, and 13 State policemen, 15 borough policemen, seven constables, a justice of the peace, and a deputy sheriff.

The University personnel taking the course were William C. Pelton, Howard O. Triebold, Jr., and Robert Barnes, with patrolmen Wade Barber, William Ely, John Galaida, Fred Hite, Daniel Hauser, John Lann, John Meckley, Mahlon Schilling, Robert Stewart, John Trimble, Stephen Walko, Fred Woods, and John Witmer.

PUBLICATION FRIDAY

The faculty and staff are reminded that the normal publication date of the Faculty Bulletin is Friday, although some receive their copies on Thursday of each week. Items to appear in the issue published on Friday should reach the editor by Monday of the same week. If the item is lengthy, it should be in the editor's hands by noon Monday; an item for the calendar may be delayed until 5 p.m.

faculty BULLETIN

Vol. 51, No. 21 Dec. 6, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of Pennsylvania
State University**

Computers

Dr. Robert T. Duquet, assistant professor of meteorology, will give the lectures for an Introductory Computer Workshop which will be held Dec. 16-20 by the Computation Center Staff for research oriented faculty members and graduate students who have no background in the use of FORTRAN and who desire to obtain such background.

The lectures will be given daily from 9 a.m. to noon in Room 111 Boucke and those who attend will be given opportunity to spend two to four hours in practicum daily at their convenience.

Baldwin named

Dr. F. Bruce Baldwin, president of Abbotts Dairies, Philadelphia, has been recommended to the Board of Trustees by Governor Scranton to replace Joseph F. Burke, also of Philadelphia, whose term expired earlier this year.

Named Distinguished Alumnus in June, Dr. Baldwin received his bachelor of science degree in 1930, then obtained a master of science degree from the University of Minnesota. He returned to Penn State and qualified for the doctor of philosophy degree in 1934.

He was vice president of Baldwin Dairies, Inc., from 1936 to 1950, then became vice president of Abbotts Dairies. He was elected to the board of directors in 1955 and assumed his present position earlier this year. He is also vice president and member of the board of directors of Fairmont Foods Co., Omaha, and a director of the Second National Bank of Philadelphia.

Graduation

Fall Term Commencement Exercises will be held tomorrow (Saturday) at 10:30 a.m. in Recreation Building.

An estimated total of 613 degrees will be granted, of which 472 are bachelor's, 117 master's, and 51 doctor's degrees. Also, 25 commissions in the Army, Navy, and Air Force Reserves will be granted.

Candidates for bachelor's degrees are distributed among the several colleges as follows: Agriculture, 20; Arts and Architecture, 7; Business Administration, 59; Education, 76; Engineering 79; Health and Physical Education, 16; Home Economics, 19; Liberal Arts, 133; Mineral Industries, 10; and Science, 53. Of the 117 master's degrees, 18 are master of arts, 1 master of business administration, 40 master of education, and 58 are master of science. Of doctor's degrees, 11 are doctor of education and 43 are doctor of philosophy.

Honors will be bestowed on 23 students, five of whom will be graduated with highest distinction, seven with high distinction, and eleven with distinction.

Members of the faculty who wish to take part in the academic procession will meet under the south balcony in Recreation Building at 10:15 a.m. Other members of the faculty are invited to attend, with their wives, and seats will be reserved for them on the main floor.

Exhibit

Musical scores, treatises on music, and other documents of interest to music scholars are featured in an exhibit in Pattee Library that will be continued until the beginning of the Winter Term.

Organized by Charles W. Mamm, Jr., curator of the Rare Book Room of the University Library, the exhibit includes materials provided by Denis Stevens, professor of music, from his personal collection, and other materials in the Library collection.

Among the items shown are the Handel Commemoration program at Westminster Abbey, June 5, 1784, when the fifth performance of "The Messiah" was given; two leaves or cover pastedowns containing neumes from the liturgy for the 12th Sunday and 17th Sunday after Trinity, from the 11th century.

Also the score of music by Henry Purcell, about 1680, for the play "Theodosius," by "Mad Mat" Lee; copies of five sermons on church music, 1693-1696, given in London and Tiverton.

GSA projects

Bids for the construction of the addition to Willard Building were received by the General State Authority Dec. 4 and the total of bids was \$1,571,570, which is under the allotment made by the Authority.

Lowest bid for general construction was made by Earl L. Cump, Chambersburg. Announcement of the awarding of the contracts will be made later.

Bids for construction of a Service and General Stores Building will be opened January 8, the Authority has also announced. The project includes six single-story units to provide quarters for the department of maintenance and utilities and a central receiving room for all University purchases and warehousing. An allocation of \$1,650,000 has been made for the project.

Honored

Dr. Vernon M. Albers, professor of engineering research at the Ordnance Research Laboratory, was honored Dec. 4 by being named a Fellow of the New York Academy of Sciences, an international science organization with 18,000 members in 50 states and 86 foreign countries.

A member of the faculty since 1945, when the Harvard Underwater Sound Laboratory was moved to Penn State, Dr. Albers is widely known for work on the propagation and transmission of sound in the ocean. He was editor of "Underwater Acoustics," a book published earlier this year which resulted from papers presented in 1961 at a nine-nation NATO Institute on Underwater Acoustics, in London, which he directed.

Gym program

A gymnastics program for high school girls will be sponsored by the College of Health and Physical Education during the Winter Term. The program is free of charge and is open to daughters of University faculty and staff who are enrolled in grades 10 through 12.

The group will meet on Tuesday and Thursday afternoons from 4 to 5 p.m. in White Building beginning January 14 and continuing through March 12. Miss Tuovi Sappinen, outstanding woman gymnast from Finland who is working with the gymnastics program in the women's physical education classes at the University, will conduct the classes.

Registration for this program will be held in the main lobby of White Building on Thursday, January 9, from 4 to 4:30 p.m. The group will be limited to the first twenty girls.

SENATE MINUTES



MEETING OF DECEMBER 3, 1963

The University Senate met at 3:55 p.m. on Tuesday, December 3, 1963 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the November 5, 1963 meeting were approved as printed in the Faculty Bulletin for November 15, 1963. One hundred fifty-five senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (A. W. Knott), A. L. Bortree (R. F. Gentry), B. F. Coon (W. W. Boyle), E. E. Edgar (Rena Foy), J. J. Gibbons (Wayne Webb), A. R. Grove (H. A. Wahl), Coleman Herpel (John Pixton), F. W. Knifflm (F. A. Babione), R. C. Miller (J. D. Sink), H. J. Read (E. R. Ryba), James Tammen (H. B. Couch), L. D. Tukey (E. L. Bergman), and Carl Volz (G. A. Etzweiler).

A letter from J. D. Ridge, Chairman of the Senate Committee on Committees, stated that P. S. Skell would replace R. G. Cunningham on the Committee on Continuing Education for the balance of the 1963-1964 term, that E. R. Weidhaas would replace C. I. Noll as vice-chairman of the Committee on Student Affairs and W. I. Thomas would serve as a member of the Committee on Student Affairs for the balance of the 1963-64 term.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He stated that the Administrative Committee of the College of The Liberal Arts had asked that Items I B and H of the report be withdrawn. The Courses of Study Committee had endorsed this recommendation. He moved that Item I A be adopted. The motion was seconded and passed. The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

D. H. McKinley announced that Commencement for the Fall Term, 1963 would be held on December 14, 1963 at 10:30 a.m. in Recreation Building.

President Walker expressed his concern for the present system of disciplinary actions in the University. He asked A. R. Gray, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, to discuss these regulations with him, to have the Student Affairs Committee consider the whole system, and to recommend needed changes.

The President extended holiday greetings to the senators.

The next regular meeting of the Senate will be on January 14, 1964; the agenda will be distributed on December 31, 1963. The meeting adjourned at 4:10 p.m.

Robert G. Bernreuter
Secretary

CHRISTMAS DECORATIONS

To reduce the potential fire hazards in University buildings during the Christmas holidays, it is suggested that all combustible materials, including trees, be removed before Christmas in those areas where they would be unattended for a long period of time. Trees require between a pint and a quart of water daily and after ten days inside become too dry for safety, fire prevention experts indicate.

GIFT SUGGESTIONS

Copies of the book, "The Pennsylvania Painters" are available at Pattee Library, Room 101. This book makes an attractive Christmas gift. The book was prepared during the Centennial Year, 1955, in connection with the exhibit of the 48 selected paintings by Pennsylvanians from the early 18th to the 20th century. Paperback copies are 50 cents.

PUBLICATIONS

Departments are reminded that the Penn State Collection of the Pattee Library should receive three copies of all departmental and University publications. Two of these are bound for archival purposes. Mrs. Louise K. Kelly, curator of the Collection, urges all faculty and staff members to present copies of their published work, photographs, programs, original Christmas cards, and any other items appropriate to the Collection. For information, call 5-7931.

FATIGUE LECTURES

A series of lectures by S. S. Munson, chief of materials and structures division of the Lewis Research Center, NASA, will be given next week, sponsored by the department of engineering mechanics and Continuing Education Services. He will lecture on "Thermal Stresses and Low Cycle Fatigue" in a five-day short course of interest to designers, metallurgists and materials engineers, and experimental analysts.

GRADUATE EXAM

The Graduate Record Examination will be held on campus January 18. Applications, forms for which may be obtained from Dr. Gordon R. Pritham, Room 104 Frear Laboratory, must be in the hands of Educational Testing Service, Princeton, N. J., by Jan. 3. The room number for the examination will be announced later.

TRUSTEE ACTIONS

Actions taken by the Board of Trustees at its meeting last weekend include the approval of dates of election of trustees by delegates from societies and by alumni and approval of dates of Board meetings in 1964. Trustee elections will be held June 11. The Full Board will meet June 13, 1964, and Jan. 9, 1965. The executive committee will meet Mar. 13, May 15, June 12, July 31, Oct. 2, Dec. 4, and Jan. 8, 1965. The next meeting of the Board will take place in Harrisburg Jan. 9, 10, and 11, 1964.

PERSONNEL MATTERS



Charles R. Marsh, associate professor of electrical engineering, will be on leave from Jan. 1 to June 30 next to study new developments and engage in research on visibility at the Technical Institute at Eindhoven, The Netherlands, and its Institute of Perceptual Research. He has had a particular interest in visibility on highways and is serving as vice chairman of the Committee on Motor Vehicle Lighting of the Illuminating Engineering Society.

Ivan E. Parkin, professor of dairy science extension, will retire Dec. 31 with 29 years of service and an "Ivan Parkin Day" will be observed tomorrow by his associates and members of the dairy industry throughout Pennsylvania. A banquet will be held in the HUB at 6:30 p.m. A graduate of the University of Connecticut, Parkin held various positions in the dairy industry until he joined the dairy extension staff here in 1934. In 1956 he was given the title, "Dairy Ambassador," by the Dairy Society International; in 1959 was named "Sanitarian of the Year" by the Penna. Dairy Sanitarians' Association; and in 1962 was selected by the Pennsylvania Dairymen's Association to receive the Pennsylvania Extension Dairy Award for outstanding contributions in the dairy field. He has been granted emeritus rank by the Board of Trustees.

Joseph B. Kubeck, sales specialist with the General Electric Co., has been appointed instructor in general engineering. A 1951 graduate of Penn State in electrical engineering, he has served with G.E., since graduation, in various capacities.

David Jordan, for the last two years Argentine fellow at the University of Pennsylvania, has been appointed assistant professor of political science, effective with the Winter Term. A graduate of Phillips Exeter Academy, he was graduated from Harvard with a bachelor of arts degree in government and obtained a bachelor of laws degree from the University of Virginia.

Dr. Paul Barton, who received all three degrees from Penn State, has been named research associate in chemical engineering. He has been a research assistant.

ITEMS OF INTEREST



ELECTED AND APPOINTED

COUCH, H. B., plant pathology, elected president of the Northeastern Division, American Phytological Society.

DAY, R. L., marketing, appointed consulting editor, International Textbook Co.

KEHLER, E. L., Continuing Education, named chairman of the Government Relations Committee of the Division of General Extension of the Association of State Universities and Land-Grant Colleges.

HUDSON, G. R., counselor education, appointed consultant with U. S. Office of Education, in connection with NDEA Counseling and Guidance Training Institute program.

SCHMIDT, F. W., mechanical engineering, appointed a member of the executive committee of the Membership Policy Committee of the American Society for Engineering Education.

WHERRY, R. H., commerce and management, appointed chairman of the Scholarship Committee of the Tri-State Mutual Insurance Agents Association.

THE ARTS

ALTMAN, HAROLD, Art, exhibiting a group of paintings, prints, and drawings at the Festival of the Arts, in Chicago.

—fifteen etchings and lithographs purchased by the Museum of Modern Art for its permanent collection.

CATALDO, J. W., art education, a visual program on theme "Lettering Calligraphy and Painting" for students at Lock Haven State College.

LECTURES AND TALKS

BALAZS, G. G., JR., electrical engineering, "Communication with Digital Computers," at the annual meeting of the Pennsylvania Speech Association.

BRODERICK, C. B., family relationships, "Communication Among Family Members," at a meeting of the Berks County Home Economics Teachers.

DELISSOVOY, VLADIMIR, child development and family relationships, "What We Know about Young Marriage," before assembly of 700 high school students at Milliflung.

DYE, LOUISE H., music education, "Music, An Area of Concentration for the College Elementary Major," before the Pennsylvania Music Educators Conference in Harrisburg.

FEILMAN, ARTHUR, Reading Center, "The Importance of Reading to Children and Adults in Today's World," at the International Reading Center in York, Pa.

KLAUS, E. E., chemical engineering, "The Role of Chemical and Physical Phenomena in the Study of Lubricants and Lubrication," at the annual Student Education Night, Dayton, Ohio.

LOCHEL, I. H., Behrend, "Outlook for Higher Education," before the Warren, Pa., Rotary Club.

—"Engineering Education—Graduate and Engineering Technicians," before the joint meeting of the Erie sections of the A.S.M.E. and I.E.E.E. Nov. 14.

MARGOLIS, DAVID, mechanical engineering, "The Curved Turbulent Mixing Layer" at the American Physical Society meeting in Cambridge, Mass.

McKINLEY, D. H., Business Administration, "The Role of the Government in Promoting Economic Growth," before the 19th annual convention of the Pennsylvania Consumer Finance Association in Philadelphia.

MILLER, E. W., geography, "Geography in the Public School Curriculum" before the New Jersey Education Association.

—"Audio-Visual Aids in Geography Instruction," at the National Council of Geographic Education meeting in Columbus, Ohio.

MILLER, J. E., Scheduling Office, "Building the Master Schedule of Classes" at the annual meeting of the Middle States Association of Collegiate Registrars and Admissions Officers at Atlantic City.

MORSE, J. M., English, "The Obscurity of Modern Literature," at the Pottsville Campus.

SOMMERFIELD, EDNA E., Home Economics, a talk on her experiences at the International Congress of Home Economics in Paris, France, before annual meeting of the Central District of the Pennsylvania Home Economics Association.

WALTERS, W. W., theatre arts, a panel discussion of the relationship of the university theatre and professional theatre at the New York District Conference of the American Educational Theatre at Brooklyn College.

WEINTRAUB, STANLEY, "C. P. Snow and 'The Two Cultures'" at Notre Dame College of Staten Island, N. Y.

WILLIAMSON, M. A., Engineering, panelist on "Engineering Education" at the meeting of the American Institute of Aeronautics and Astronautics in Philadelphia.

ARTICLES AND PAPERS

At the 21st U. S. Navy Symposium on Underwater Acoustics at Washington, D. C., papers by the following Ordnance Research Laboratory staff members: P. M. KENDIG and G. L. WILSON, "A Transducer for a Homing Torpedo System"; R. D. INGRAM, "Active-Passive Torpedo Homing System"; J. M. LAWHER, "Some Considerations in the Detection of Torpedoes by Submarines."

CATALDO, J. W., art education, "A Sequential Curriculum in Art," at the Ohio Art Education Association meetings in Cincinnati.

GAMBLE, H. B. and BARTOO, R. A., forestry, "Comparisons of Timber and Wildlife Values and Returns on Farm Woodlots," in the October issue of the Journal of Forestry.

GLANTZ, P. J., veterinary science, "Holder for Reading Results of Tube Tests," in the September issue of the Journal of Bacteriology.

JOHNSON, L. J., MATLSKI, R. P., and ENGLE, C. F., soil technology, "Clay Mineral Characterization of Model Soil profiles in Several Pennsylvania Counties," in the Sept.-Oct. issue of Soil Science Society of America Proceedings.

KLAUS, E. E., chemical engineering, "Survey of Lubricant Development and Evaluation" and with J. A. O'Brien, Socony

Mobil Oil Co., "Precise Measurement and Prediction of Bulk Modulus Values for Fluids and Lubricants" at the Winter Meeting of the American Society of Mechanical Engineers in Philadelphia.

MARIS, V. E., economics, "The French New Deal," in the November issue of Current History, devoted to the Common Market.

MARIN, JOSEPH, engineering mechanics, a chapter, "Mechanical Properties of Engineering Materials: Macroscopic Behavior" in a new book, "Materials Science Research," edited by H. H. STADLER and W. W. AUSTIN.

McCORMICK, R. H. and HEIRICK, S. S., chemical engineering, with WALSH, W. H., duPont Co., and D. ZUDKOVICH, Esso Research and Engineering Co., on relative volatilities of isopentane: n-pentane in the October issue of the Journal of Chemical and Engineering Data.

MUTZEL, H. E., College of Education, "The Place of Systematic Classroom Observation in Educational Research," at the Conference on Designs for Research in the Teaching of English at San Francisco.

MORSE, J. M., English, "The Choreography of the 'New Novel,'" in The Hudson Review, Autumn issue.

—"KARL GUTSKOW and the Modern Novel" in the Autumn issue of The Journal of General Education.

MURR, L. E., engineering mechanics, "Plant Growth Response in a Simulated Electric Field-Environment," in the Nov. 2 issue of Nature.

—with WILKOV, M. A., "Apparatus for the Fatigue of Thin Metal Foils in the Hitachi H. U. II Electron Microscope."

NISBET, J. S., electrical engineering, "Factors Controlling the Shape of the Upper F-Region under Daytime Equilibrium Conditions," in the Nov. 15 issue of the Journal of Geophysical Research.

SNOWDON, J. C., Ordnance Research Laboratory, "Transverse Vibration of Internally Damped Beams with Rotary Inertia and Shear," at the 66th Meeting of the Acoustical Society of America at Ann Arbor, Mich.

THURING, G. L., industrial engineering, "Machinability of Nodular Cast Irons," at a meeting of the Ductile Iron Society in Philadelphia.

URBAN, H. B., and FORD, D. H., Division of Counseling, "Systems of Psychotherapy: A Comparative Study."

Vairo, J. D., journalism, "Scholastic Journalism," at the sixth annual scholastic press conference sponsored by the Philadelphia Evening and Sunday Bulletin.

WILLIAMSON, M. A., Engineering, "The Institute for Certification of Engineering Technicians" before the Engineering Manpower Commission in New York.

—"Words and Understanding" at the meeting of the Association of Research Directors.

WISDOM, WILLIAM, philosophy, "On How Donnellan Knows What He is Doing," in the November issue of the Journal of Philosophy.

ZIMMERMAN, L. N., bacteriology, with HAMMILL, JAY, "Growth Stimulation of *Streptococcus Faecalis* var. *Liquefaciens* by Canavanine" in the September issue of the Journal of Bacteriology.

BOOKS



Dr. Robert L. Weber, associate professor of physics, is author of "Physics for Teachers" which will be published by McGraw-Hill in January. The first text of its kind with the specific aim of extending the knowledge of in-service teachers to give them a valid idea of contemporary physics, the book has two main parts, dealing with space and atoms. The book evolved from a study guide Dr. Weber used in a summer institute for high school teachers of mathematics and science at Yale University in 1961, and will have especial interest for the teacher attending a similar summer institute or a refresher course.

Dr. E. Willard Miller, professor of geography, has in preparation a book titled, "Economic Atlas of Pennsylvania," to be published by the Pennsylvania State Planning Board, Harrisburg.

CALENDAR



Friday, Dec. 13

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. M. A. Short, research scientist, The Bell Telephone Co., on "The Preparation of Homogeneous Bismuth Antimony Alloys."

Faculty Women's Club Pot Luck Supper, Recreation Building.

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Saturday, Dec. 14

Fall Term Commencement, 10:30 a.m., Recreation Building.

Varsity basketball, vs. Syracuse, 8 p.m.

Technology and human values

(At last week's conference on "Technology and Human Values" conducted by the Center for Continuing Liberal Education, Robert Theobald, consultant for the American Management Association and a member of the Columbia Faculty Seminar on Technology and Social Change, talked on "Human Rights in a Cybernated Age." Quoted below are some of his remarks pertaining to the rights of humans as they refer to the era when there are not enough jobs to go around and ultimately to the time "when only two per cent of the population will produce all the goods and services needed to feed, clothe, and run our society with the aid of machines," to quote Ralph Bellman, of the Rand Corporation.)

"Attention has gradually come to focus on the need to provide every individual within the United States with a decent standard of living whether he can find work or not.

"I can see no possible alternative to this situation but to provide every individual with an absolute constitutional right to an income adequate to allow him to live with dignity. No governmental agency, judicial body, or other organization should have the power to suspend or limit any payments assured by these guarantees. Such an absolute constitutional right to an income will recognize that in an economy where many jobs already represent make-work in any social sense and where the requirements for workers will decrease in coming years it is ludicrous to base the right to an income on an ability to find a job.

"A right to an income alone would be insufficient to guarantee human rights: society must also take an unlimited commitment to produce the conditions in which every individual can develop his full intellectual potential. The acceptance of this principle would make me highly optimistic for the long run. I believe that we have so far

developed only a tiny proportion of the potential of most human beings. I believe that acceptance of an absolute right to an income and complete education would allow a flowering of the spirit and mind whose dimensions cannot even be guessed today.

"In the future, work will no longer be essentially a labor-payment to society but rather the full use of an individual's potential for the material benefit of his fellows and his own self-fulfillment. In the same way, leisure will no longer be time not spent in toiling but rather the full use of an individual's potential for the psychical benefit of his fellows and his own recreation.

"The long-run potential is immensely challenging. But we will not reach this desirable future state if we do not recognize that the upbringing and education of much of the present population has limited their horizons so severely that they cannot fully benefit from the potential abundance which their own work has created. Society crippled these people in order to get them to produce efficiently. As their productive efforts are no longer required, society must not only provide them with rights to adequate incomes but must also provide new types of activity which will give them a sense of satisfaction from their lives.

"Cybernation provides the potential for unlimited freedom but we can only grasp the potential for freedom in a totally new form of society. It is necessary to create a new type of society in which an individual will be given a chance to develop his personality. We need a new type of society based on respect for what the individual is: not on the color of his skin or his existing position in society. We need a new form of society which condemns selfishness and lying under whatever names it may be disguised."

faculty BULLETIN

Vol. 51, No. 22 Dec. 13, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. UN 5-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

Faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

ORIENTATION

About a hundred freshmen will be admitted to the University for the Winter Term beginning January 9. Their Orientation Program will begin Monday, Jan. 6. In addition, about an equal number of students will transfer from other Commonwealth Campuses to University Park.

FINAL PLANS

The Executive Committee of the Board of Trustees has approved final plans for the Physical Sciences Building, to be constructed south of Pond Laboratory, and of the Academic Services Building, to be located east of Wagner Building on Curtin Rd. The General State Authority will now consider the plans and ask for bids.

ART CLASSES

Children's art classes of the department of art education will resume Jan. 18. Arts and crafts classes are planned for younger children and those of secondary school age will devote their time to one medium, such as painting, graphics, ceramics, or sculpture. Openings exist in the teen-age (12 or over) group; call the department of art education if interested (UN 5-6570).

WITNESS

Dr. Rustum Roy, professor of geochemistry and director of the Materials Research Laboratory, was one of six witnesses testifying before the House Administration Committee, Subcommittee on Accounts, in support of HR 6866 and HR 8066, bills to establish a Congressional Office of Science and Technology to provide members and committees of Congress information and briefing on a range of scientific and engineering matters.

TRANSFERRED

Col. Felix B. Wywal, assistant professor of air science for the past 30 months, will be transferred Jan. 8 to the air staff in U. S. Air Force headquarters in Washington, D. C.

Pottsville renamed Schuylkill

The Board of Trustees has approved a change in the name of the Pottsville Center to Schuylkill Campus, effective immediately, in anticipation of the move to the new site of the facility just east of Schuylkill Haven, on Rt. 61, sometime next year or the early part of 1965. The Schuylkill Educational Foundation, Inc., which has served as the advisory board for the Center since 1941, recommended the name change.

AAAS meeting

A number of faculty members will take part in meetings of the American Association for the Advancement of Science at Cleveland, Ohio, Dec. 26-30.

In addition, the University-produced film, "Eye for Tomorrow," concerning Dr. Erwin W. Mueller's ion microscope, will be shown two days.

Papers

Dr. William B. White, assistant professor of geochemistry, is co-author of three papers to be presented before the meeting of the National Speleological Society: "The Central Kentucky Karst—a Review"; "Origin of Sulfate Minerals in Central Kentucky Caves"; and with G. H. Deike, "Paleohydrology of Mammoth Cave and the Flint Ridge Cave System."

Dr. Elizabeth W. Smith, associate professor of biology at Behrend Campus, with Woodrow Goodpaster, "Growth of Juvenile Big Brown Bats," before the section on Animal Behavior and Sociobiology.

Dr. E. B. Hale, associate professor of animal behavior, and Dr. John O. Almquist, professor of dairy physiology, "Development of Various Components of Sexual Behavior in Dairy Bulls," before the section on Animal Behavior and Sociobiology.

Dr. Martin W. Schein, associate professor of animal behavior, "The Permanent Effect of Imprinting in Turkeys," before the same section.

Dr. Joseph Zaffaroni, associate professor of elementary education, "Science and Children: Partners in Discovery," before a symposium on elementary school science.

Dr. Frank J. McArdle, associate professor of horticultural processing, before the meeting of the National Association of Biology Teachers.

Fred J. Brenner, graduate student in zoology, "Energy and Nutrient Requirements of the Red-winged Blackbird," before the section on Comparative Physiology and "Energy Flow in Two Breeding Populations of Red-winged Blackbirds" before the Ecological Society meeting.

In addition, Dr. Hershel W. Leibowitz, professor of psychology, ar-

(Continued on page two)

The new campus will add an associate degree program in electrical and electronics technology to its offerings when the new campus opens.

The new site, which was donated in April, 1962, was formerly Rest Haven, operated by Schuylkill County as a sanitarium and hospital, and has an estimated value of \$1,250,000. The General State Authority has allocated \$467,670 for renovations and the Schuylkill Educational Foundation will pay for some site preparation and for demolition of unsound buildings through a grant from the Will S. Fox Foundation.

Demolition of old buildings is expected to start early next year and renovations to begin when the demolition work is completed.

Work to be done includes renovation of the "new hospital" at the east end of the 40-acre campus, to serve as the main classroom-laboratory building, with a library and student union.

Grade summary

A comparison of grades earned by students by college and grades granted by faculty of that college reaffirms, as expected, that grade distributions do vary from college to college.

Based on information distributed recently to fall faculty members by the Office of Student Affairs, average grades earned by students by college and average grades granted by the faculty in the 1963 Spring Term are summarized in the following table:

College	Earned	Granted
Agriculture	2.70	2.72
Arts and Arch.	2.50	2.94
Bus. Adm.	2.48	2.40
Chem-Phys	2.69	2.20
Education	2.70	2.75
Engineering	2.51	2.62
Home Econ.	2.59	2.74
Liberal Arts	2.63	2.48
Mineral Ind.	2.74	2.74
Phys. Educ.	2.58	2.99

(Note: averages exclude all grades except A,B,C,D, and F. Also excluded are students in the Division of Counseling from the first column; from the second column, grades granted in military departments and in General Education courses are excluded. These averages do not indicate grade-point averages since no weight is given to the number of credits involved.)

PERSONNEL MATTERS



Dr. Anthony M. Pasquariello has been named head of the department of Spanish, Italian, and Portuguese and professor of Spanish, effective July 1, 1964. He has been chairman of the comparable department at the University of Colorado since 1958. A graduate of Brooklyn College, he obtained his master's degree from Columbia University and doctor of philosophy degree from the University of Michigan. He taught at the University of Michigan and has served as director of two NDEA language institutes in his service at the University of Colorado.

Dr. Raymond G. D. Ayoub, professor of mathematics, will be acting head of the mathematics department for the first six months of next year while Dr. James B. Bartoo is on leave. Dr. Ayoub has served on the faculty since 1952, is a graduate of McGill University, Montreal, and received his doctorate at the University of Illinois.

Dr. Louis P. Hammett will be distinguished visiting professor of chemistry for the Winter Term. He was a Columbia University faculty member for 41 years and at the time of his retirement in 1961 was Mitchell Professor of Chemistry. He was chairman of the chemistry department for six years and during World War II was research director of the Explosives Research Laboratory at Bruceston, Pa. He is holder of three medals

in chemistry—William H. Nichols, Priestley, and William Gibbs—and received the James Flack Norris Award during his long career.

Dr. John B. Smyth, president and technical director of Smyth Research Associates, San Diego, Calif., since 1955, will serve as distinguished visiting professor of electrical engineering for the Winter and Spring Terms. He is a graduate of the University of Georgia where he also received the master of science degree, and received his doctorate from Brown University. He served as division head for research in wave propagation at the U. S. Navy Electronics Laboratory in San Diego from 1942 to 1955. He has been visiting lecturer at the University of California at Los Angeles, and at San Diego State College and was physicist at the Tennessee Eastman Corp., Kingsport, Tenn.

Dr. Paul Braesz, professor of insurance science at the University of Cologne, will serve as distinguished visiting professor of economics for the Spring Term. He will conduct a labor seminar for graduate students in comparative European social insurance systems and give faculty seminars and public talks. He has had a long career in scholarly work, business operations, and public service. He served as director of Mecklenburg State Fire Insurance prior to World War II and after the war as Minister of Finance for the State of Schleswig-Holstein. From 1951 to 1958 he was chief executive official of the city of Remscheid. He had a close relationship with Penn State students in the Study Abroad Program when he was dean of the faculty of economics and social sciences.

Dr. Norman Frisbey, for the past 18 months branch chief in the Division of Selection in the Peace Corps, has been appointed director of the Placement Service, succeeding Dr. Donald H. Ford. A graduate of the Michigan State University in mathematics, he received the master's degree in psychology in 1952 and the doctorate, also in psychology, in 1958. He was affiliated with a management consultant firm from 1958 to 1962, working as training and personnel consultant in Tehran, Iran, and was a research analyst and supervisor of manpower planning for the Chrysler Corporation, 1955-58.

Dr. Ford, who is director of the Division of Counseling, has been appointed also to the position of Coordinator of Student Services, which includes the Placement Service, Counseling, and the Office of International Student Affairs.

AAAS—

(Continued from page one)

ranged and will preside over a symposium on "The Development of Perception during the First Six Months of Life," for the section on Psychology. Also, Dr. Lowell Schipper, associate professor of psychology, arranged and will preside over a symposium on "Engineering Psychology: Contributions of an Infant Science." And Dr. Herbert A. Smith, head of the department of secondary education, arranged four sessions for the Education section and will preside over a symposium on "Career Developments of Scientists: Graduate School to Graduate School."

faculty BULLETIN

Vol. 51, No. 23 Dec. 20, 1963

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

SEASONS GREETINGS



faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Acquisition

A collection of 18th-century books and pamphlets, consisting of 361 items and built around 19 works by Samuel Johnson, has been acquired by the Rare Books Room of Pattee Library.

Under the title, "Samuel Johnson and His Contemporaries," the collection includes a first edition of James Boswell's "The Life of Samuel Johnson" and first editions of works by Henry Fielding and Alexander Pope. Political and religious tracts, proclamations, speeches and debates, written by Johnson's contemporaries, give a picture of the Samuel Johnson period.

The collection was purchased from a New Haven, Conn., dealer. Dr. Henry Sams, head of the department of English, notes that the collection contains items which are the foundation of the great tradition of English biography and that the entire collection has great historical importance.

Library tour

Graduate students will have the opportunity to hear a talk on library materials and take a tour of Pattee Library facilities Thursday, Jan. 16 from 3:50 to 5:30 p.m., meeting in Room 5.

Faculty members are asked to call the tour to the attention of their graduate students, who should sign at the Reference or Information desk beforehand so that some idea may be gained as to the number of guides to provide.

Instruction offered to classes is described in the "Library Handbook for Faculty and Graduate Students."

Fishery

A cooperative arrangement between the Pennsylvania Fish Commission, the U. S. Bureau of Sports Fisheries and Wildlife, and the University will result in the establishment of a Cooperative Fishery Unit as part of the department of zoology.

The purpose of the unit will be to train fishery scientists for work with private industry and with Federal and State government agencies, and to conduct research and other programs on problems related to fishery science.

Dr. Robert Butler, former research zoologist at the University of California, will serve as unit leader, representing the U. S. Department of the Interior.

The unit will be one of 12 to be organized throughout the country.

Research funds

Penn State ranks sixth in the nation in funds applied to engineering college research. Illinois Institute of Technology, with \$22.8 million tops the list and the University of Michigan, Massachusetts Institute of Technology, University of Illinois, and University of Minnesota expend more than Penn State, which is listed at \$6.07 million. The total amount expended by 126 institutions listed in the 1963 Engineering College Research Review is \$200 million.

INVENTION

Norman B. Miller, Miles T. Pigott, David C. Whitmarsh, and Richard O. Rowlands, have been granted U. S. Patent No. 3,113,286 for an Acoustical Wave Direction Determining Device, which is related to an acoustical direction system capable of determining the angle of arrival of signals originating from an external acoustical source. The work was done at the Ordnance Research Laboratory.

ATTEND CLASSES

A Navy pilot and an officer and enlisted man from stations near Philadelphia are attending credit-classes conducted by the Continuing Education Services at Newtown. The officer, assigned to the Medical Service Corps at Willow Grove, is studying speech and psychology; the enlisted man, an aviation machinist mate at Willow Grove, is enrolled in a history and psychology class; and the Navy pilot, stationed at Johnsville, is studying English and psychology.

SPEECH

The telephone number of the Speech Department was changed Dec. 23 to 865-4361. The offices are in Sparks Building.

SENATE

The University Senate will meet Tuesday, Jan. 14 at 3:55 p.m. in Room 121 Sparks.

Graduate center

Classes at the King of Prussia Center will begin Jan. 9 and will be held each Monday and Thursday from 7 to 9 p.m. for the Winter Term. Dr. A. Witt Hutchison, director, has announced.

Courses scheduled for the first term of the new Center include Pulse Techniques and Information Theory II; Mechanics of the Solid State; Heat Transfer; Advanced Engineering Thermodynamics; and Introduction to Applied Mathematics.

The program will lead to the Master of Engineering degree, with an engineering science major.

PERSONNEL MATTERS



Donald V. Foster, assistant professor of engineering at the Hazleton Campus, died Dec. 14 at the age of 47. He joined the staff in 1950 as instructor in Central Extension. He was a graduate of New Mexico A. and M. with a bachelor of science degree in electrical engineering in 1950, after having spent six years in the U.S. Marine Corps in electronics work.

Dr. John H. Frederick, professor emeritus of business organization at the University of Maryland and former head of the department, will be a distinguished visiting professor of transportation for the Spring Term. A member of the Maryland faculty from 1946 until his retirement in 1962, Dr. Frederick is author of many books in his field and of several hundred articles on transportation and distribution.

Dr. Ruth S. Cavan, professor emerita of sociology at Rockford College, in Illinois, has been appointed distinguished visiting professor of family relationships for the Winter Term. She served on the Rockford faculty from 1947 to 1962, when she retired. She is a graduate of the University of Chicago and received advanced degrees in sociology and anthropology. She served as a representative at two White House Conferences on Children and is the author of a number of books on children and the family.

James W. Paterson has joined the staff of the Cooperative Extension Service as extension agronomy specialist. He was graduated from the University of Rhode Island in 1959 and received his master of science degree in agronomy from Penn State in 1961. He is presently working toward his doctor of philosophy degree.

Space problem continues

Seemingly endless University construction projects serve as a constant reminder that it will take more than the waving of a magic wand to bring about the accommodation of 25,000 students by 1970. Other Commonwealth Campuses share the concern, since they are expected to enroll 10,000 students by the end of this decade, approximately 65% more than their present potential.

The steady growth since World War II, not only in numbers of students but in a myriad of other ways also, has required a continuing expansion of facilities, and yet as spectacular as physical growth has been, faculty and administrators alike have felt pinched, first in one area then in another, as problems have occurred and been solved.

In the 1953-62 decade, Penn State added 1,413,084 square feet of space to resident education enterprises and 589,393 square feet to research activities, totalling the equivalent in floor space of 19 Old Mains. The book value cost of these buildings (which do not include residence halls, service buildings, or others like the HUB), is \$28,134,000. The entire cost, when professional fees and other construction costs are included, would be 10-15% higher.

Construction now in progress (or completed this year) adds 542,230 square feet to resident education and 91,362 square feet to research space, at a book value cost of about \$13,000,000.

Ahead is a long list of projects, now in four stages—bids received and contracts let (Willard Building Addition and Conference Center); buildings for which funds are available but for which no bids have been made; buildings for which design funds have been allocated; and buildings in the long range plan for which no funds have been allocated as yet. A partial list, including only those buildings directly related to instruction or research, is as follows:

Funds available—beef and sheep barns; computer facilities center, forestry research center; physical education swimming pool; addition to Pattee Library; Physical Sciences.

Design Funds only—Graduate School Center; unit 2 of Life Sciences; Agricultural greenhouses; Engineering Sciences; addition to Agricultural Engineering; unit 2 of Chemical Engineering; Women's Physical Education; Animal Industries; and unit 3 of Education and Psychology.

Long-range plan—Burrows addition; College of Business; unit 2 of Physical Sciences; Agricultural Administration; three units of Research Center; completion of Osmond; Col-

lege of Arts and Architecture; unit 2 of Graduate School Center; and many others.

As the growth continues, other buildings will be needed to provide student and staff services; for example, an addition to the HUB is already on the way and a service and general stores building is to be bid in January.

The year-by-year summary of construction in the past decade, including only those buildings exclusively or largely designed for instruction or research, rather than general service:

Year	Square Feet of Space Instruction	Research
1953	106,916	52,509
1954	65,601	166,682
1955	-----	35,144
1956	130,675	33,040
1957	-----	-----
1958	348,723	147,736
1959	88,900	20,747
1960	293,612	21,172
1961	357,182	28,267
1962	21,475	63,561
Total	1,413,084	589,393*

(* Includes 20,535 square feet of space in cottages transferred to research purposes.)

The next 18 months, says President Walker, are going to be critical times in respect to classroom, office, and research space, but this is the "dark before the dawn." Soon the Armory will come down to make way for the Willard Building expansion of much-needed classrooms. In the new building there will be space for more than 3,200 students at one time, in classrooms seating from 40 to 200. On west campus, construction of Earth Sciences Building is about to begin and on north campus Life Sciences unit No. 1 is already started.

"For the time being," the President says, "we will undertake no new research projects requiring additional space. We will be put to the test for a while to make do with what we have and will complete soon. It is unfortunately true that some faculty and staff members are going to be crowded together, but ultimately our space situation will be markedly improved."

GRANTS



R. G. Cunningham, mechanical engineering, \$350, International Business Machines Corp., two D. C. power supplies.

William Spackman, geology and geophysics, \$3,875, National Science Foundation, to study characteristics of modern organic sediments.

W. F. Prokasy, psychology, \$12,000, National Science Foundation, for undergraduate science education program.

Walter Jaunzemis, engineering mechanics, \$15,048, U. S. Air Force, for studies of transient thermal stresses in solids.

O. F. Tuttle and Della Roy, Materials Research Laboratory, \$9,056, Atomic Energy Commission, for studies of the preparation, properties, and structure of carbonate and related glasses.

A. H. Waynick, electrical engineering, \$275,000, U. S. Air Force, for investigations of the physics, dynamics, and general properties of the ionosphere.

T. K. McCubbin, physics, \$78,140, U. S. Air Force, for development techniques for high resolution precision infrared spectroscopy.

G. F. Wislicenus, aeronautical engineering, \$29,250, N.A.S.A., for investigations and analyses of flow phenomena of secondary motions in axial flow inducers.

Della Roy, Materials Research Laboratory, \$25,700, National Science Foundation, for studies of crystal chemistry and microstructures of cement phases.

R. W. Taft, chemistry, \$47,500, Office of Naval Research, for research on the separation of polar, steric, and resonance effects in donor-acceptor equilibria.

J. R. Rackley, for various areas and amounts, N.A.S.A. for enrollment of N.A.S.A. employees for courses of instruction to be specified by individual training orders.

F. W. Zeikert, agricultural engineering, \$1,000, Penna. Farm Bureau Cooperative Association, for research on water purification.

W. A. Weyl, mineral industries, \$2,000, Owens-Illinois Technical Center, to aid in publication of the book, "The Constitution of Glasses."

Ruth L. Pike, foods and nutrition, \$7,500, The Nutrition Foundation, Inc., to study the relationship of vitamin B₆ to protein metabolism during pregnancy in the rat.

J. M. Duich, agronomy, \$5,000, Penna. Turfgrass Council, Inc., for nitrogen availability studies.

James Tammen, plant pathology, \$3,000, Gloechnier Foundation, Inc., for development and maintenance of pathogen-free propagative materials of ornamental plants.

R. A. Olsen, industrial engineering \$2,160, H. B. Maynard and Co., for research on methods of measuring a total contribution of the industrial engineering function to a business.

T. C. Benton, mathematics, \$121,600, National Science Foundation, for an Academic Year Institute in Mathematics for Secondary School Teachers of Mathematics.

ITEMS OF INTEREST



The Arts

ALTMAN, HAROLD, art, a drawing purchased for permanent collection of Grinnell College.

—one-man show of prints at the University of Texas Art Gallery; two drawings at the invitational exhibition of the University of Kentucky; other work at the Society of American Graphic Artists annual exhibition.

PAPPAS, MARILYN R., art education, "Landscape No. 4" and "Landscape No. 3" exhibited at the Third National Invitational Craft Show at Indiana University; wall hanging, "Mountain Landscape" in exhibit "Craftsman of the Northeastern States" at the Worcester Art Museum.

RAVER, LEONARD, music, organ recitals for the Williamsport Chapter of the American Guild of Organists and at the Second Presbyterian Church in Roanoke, Va.

Elected and Appointed

CROSSLEY, G. L., electrical engineering, re-elected for sixth term as director, American Radio Relay League.

FENSK, M. R., chemical engineering, reappointed to a second three-year term on the Advisory Committee of Chemical Engineering at the Argonne National Laboratory.

HYLBERT, K. W., counseling in education, appointed to a national advisory committee to the National Rehabilitation Association on recruitment and placement of rehabilitation counselors.

—reappointed to the Professional Standards and Relationships Committee of the National Rehabilitation Association.

—reappointed to the Dabelstein Memorial Lectures Committee of the National Rehabilitation Association.

MARIN, JOSEPH, engineering mechanics, appointed member of Materials Science Committee, American Society of Engineering Education.

SMITH, G. W., chemistry, appointed to the Curriculum Committee, National Science Teachers Association.

Lectures and Talks

ANDREWS, FRANCES M., music education, "Implementing a State Curriculum Guide on the County Level," before the Cecil County, Maryland, Institute.

DAVISON, H. M., education, "The Effect of the Quality Teacher on Cost," at the meeting of the Pennsylvania Educational Research Association in Harrisburg.

GOLATZ, H. J., industrial relations, "Education and Economic Growth," at the annual convention of Mifflin County School Directors.

GUEST, L. P., psychology, "What Makes People Buy," for the Advanced Seminar in Real Estate at the Nittany Lion Inn.

HARRIS, D. B., psychology, "Current Issues in Developmental Psychology," before the faculty and graduate students at Teachers College, Columbia University, Dec. 16.

KELLY, E. J., business administration, "New

Developments in Sales Management," before sales executives of the Chevrolet Motor Co., Detroit.

MARIN, JOSEPH, engineering mechanics, "Higher Education in the U.S.S.R.," before a joint meeting of the American Chemical Engineering Society of the American Rocket Society in Cumberland, Md.; also the Kiwanis Club of Lewistown.

PERKINS, H. W., Wyomissing, "Perspective and Your State University," before the Management-Personnel Group of Berks County Manufacturing Association.

SHEARER, J. L., mechanical engineering, "The Gap Between Theory and Practice of Automatic Control," at the December meeting of the Pittsburgh Section, Institute of Electrical and Electronics Engineers.

SHULTS, SAM, civil engineering, "Directions of American Research in Sediment Transport" and "Directions of American Research in River Behavior," for the students and faculty of the Technical University of West Berlin, Germany.

VAIRO, J. D., journalism, "Trends in High School Journalism" at the assembly of St. Hubert's Catholic High School for Girls, Philadelphia.

ZELKO, H. P., speech, "Communication in Management," a unit of training as part of a ten-day conference in Indianapolis conducted by the Department of the Army for executive civilian and military executives.

Articles and Papers

At the fall meeting of the International Scientific Radio Union, papers by Ionosphere Research Laboratory staff members: W. J. ROSS, "The Diurnal and Annual Variation of Equatorial Ionospheric Electron Contents"; J. S. NISBET, "Factors Controlling the Decay of the Nighttime F Region Under Equilibrium Conditions"; NISBET and T. P. QUINN, "A Study of the Ion-Neutral Particle Collision Frequency and the Diffusion Coefficient for Atomic Oxygen Ions in the F Region"; and F. H. HILBERD, "Ionospheric Electron Content and Its Variations at Mid-latitudes."

At the "Conference on Non-Linear Processes in the Ionosphere" at the National Bureau of Standards, papers by the Ionosphere Research Laboratory staff members: J. J. GIBBONS and R. E. HARVEY, "A Solution Method for Cold Plasma"; F. H. HILBERD, "Wave Interaction at Oblique Incidence, Near the Gyro Frequency"; and O. E. H. RYDBECK.

At the annual meeting of the Entomological Society of America in St. Louis, papers by the following members of the department of agricultural entomology: COX, J. A., "Toxicity of New Insecticides to Adults of the Red-banded Leaf Roller on Grapes"; SMYTH, THOMAS, "Inhibition in the Cockroach Nervous System"; SNEISINGER, R. J., "New Methods for Controlling Greenhouse Pests," prepared with ANDERSON, PAUL, agricultural engineering, BEALER, R. C. and WILLIS, F. K., rural sociology, with BLENDER, G. W., "Interreligious Marriages among Pennsylvania Rural Youth," in the November issue of Marriage and Family Living.

— "Religious Exogamy: A Study of Social Distance," in the October issue of Sociology and Social Research.

BURNS, JANETTE, speech at DuBois, "Town and Gown Theatre—An Evaluation," in the 1963 annual issue of the Playbill.

DEASY, G. F., geography, "Atlas of Pennsylvania Coal and Coal Mining: Part II, Anthracite," as Bulletin No. 80, College of Mineral Industries.

DEASY, G. R., and GRISS, P. R., geography, "Problems of the Pennsylvania Anthracite Region" at an international panel session of the Council of Economics, American Institute of Mining, Metallurgical and Petroleum Engineers Feb. 16-20.

FERGUS, C. L., botany, with J. W. SINDEN, L. C. SCHMIDT, and EDITH M. SIGEL, "Possible Detrimental Effect of Pythium atro-trogus on the Cultivated Mushroom" in the November issue of Phytopathology.

FRANZ, J. B., American history, "The Uses of Instructional Television: An Historian's Point of View" at the 78th annual meeting of the American Historical Association in Philadelphia.

HARISOOK, E. W. and HERSHBERGER, T. V., animal nutrition, "Influence of Low, Intermediate and High Levels of Dietary Protein on Heat Production of Rats," in the November issue of the Journal of Nutrition.

KAUFMAN, J. J., economics, "Technological Changes and Work Rules" and "Railway Grievance Procedures," at the Mid-America Seminar for Railway Labor at the University of Chicago.

KESLER, E. M., dairy science, with JOYNER, A. E., and HOLTER, J. B., Absorption from the Omasum and Subsequent Metabolism of Butyrate and Acetate," in the Journal of Dairy Science, October issue.

— and SPAHR, S. L., with HOLTER, J. B., "Separation of Organic Acids from Ruminant Blood by the Wiseman-Havin Method," in the October issue of the Journal of Dairy Science.

LECZAR, E. J., physics, "Grain Motion on a Movable Plane," in the September issue of the Journal of the Society of Mining Engineers.

MURR, L. E., engineering mechanics, "Plant Growth Response in a Simulated Electric Field-Environment" in a recent issue of Nature.

OLDSEY, B. S. and WEINTRAUB, STANLEY, English, "Lord of the Flies: Beelzebub Revisited," in the November issue of "College English."

SNOWDON, J. C., Ordnance Research Laboratory, "Transverse Vibration of Internally-Damped Beams with Rotary Inertia and Shear," at the meeting of the Acoustical Society of America at Ann Arbor, Mich.

SOPPER, W. E., forestry, "Control of Riparian Vegetation with Phenox Herbicides and Their Effect on Stream-flow Quality," at the Northeastern Weed Control Conference in New York, Jan. 8-10.

WYLLIE, P. J., geochemistry and mineralogy, "Applications of High Pressure Studies to the Earth Sciences" in a new book, "High Pressure Physics and Chemistry," edited by R. S. Bradley.

CALENDAR



Monday, January 6

Winter Term Orientation program begins.

Tuesday, Jan. 7

Winter Term registration begins, concludes Jan. 8.

Thursday, Jan. 9

Classes begin, 8 a.m.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. D. P. Stevenson, Shell Development Co., on "Solvent Effects."

College of the Liberal Arts Faculty meeting, 3:55 p.m., Room 121 Sparks.

Saturday, Jan. 11

Organ recital by Leonard Raver, 8 p.m., Schwab Auditorium.

Jazz tape

Robert Napier, assistant professor of architecture, and Kenneth H. Wodtke, assistant professor of psychology and education, both faculty advisers to the Penn State Jazz Club, will take part in a special television program on jazz.

Napier, as drummer, and Wodtke, as bass player, will be part of a small group which will be videotaped, for broadcast at a later date, in a program titled, "Jazz Speaks." The program with narration will recount the history of jazz in musical terms. The Jazz Club and the department of public information are co-sponsors.

For an undergraduate thesis, while at Pratt Institute, Napier prepared a "Proposed Conservatory for Jazz Musicians" and his revised studies will be shown at the HUB in the spring.

Exhibits

The College of Engineering has initiated a program of exhibits to be displayed in Exhibition Hall of Hammond Building and provided by industrial and commercial companies.

It is planned to have up to a dozen exhibits each term, covering a wide variety of subjects of interest not only to engineers but to the general public as well. They will be keyed to the theme, "Engineering—Present and Future."

For the Winter Term, exhibits have been provided by the following companies: Burroughs Corp., Merck and Co., Corning Glass, Blaw Knox Co., Anaconda Wire and Cable Co., Ebasco Services, Douglas Aircraft, Boeing Co., and Cincinnati Milling Machine Co.

* * *

Work of students in the department of art education is currently on display in the Art Gallery of Chambers Building and will remain until January 10.

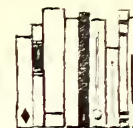
Included in the exhibit are cast silver rings and bronzes, wooden bowls, Rya rugs, stitchery, sculptural weavings, batik, calligraphic plates, photographs, ceramics, and murals.

* * *

An International Exchange Exhibit titled, "Contemporary Prints from Germany—II," will open January 4 at 7 p.m. and continue at the HUB Gallery until Jan. 27.

Sponsored by the Memorial Union, Oregon State University, the selection was made by Gordon W. Gilkey, chairman of the art department of Oregon State. The artists represented developed since World War II.

BOOKS



"The Self in Modern Literature," by Charles I. Glicksberg, is being published today by The Pennsylvania State University Press. Glicksberg, professor of English at Brooklyn College, is also the author of "Literature and Religion" and was editor of "Walt Whitman and the Civil War."

The book explores the place and analysis of self in the writings of Kierkegaard, Ibsen, Strindberg, Pirandello, Gide, Malraux, and the Existentialists, leading up to a discussion of the Positive Hero and the Russian Scene, including Pasternak. In addition to 185 pages of text, there are extensive footnotes.

Glicksberg's work, a study in comparative literature, will be of interest to students of literature and of those concerned with philosophy, in an easy-to-read analysis of the way the self has been treated by the major modern authors.

Ralph H. Wherry, head of the department of commerce and management, and Monroe Newman, professor of economics, are co-authors of a textbook, "Insurance and Risk," published last month by Holt, Rinehart and Winston, Inc. Not an encyclopedia, the book nevertheless covers the entire subject of insurance and risk, including the growth of insurance and its concern to industry, corporate management, and society. The book is intended primarily for students of business administration and economics.

faculty BULLETIN

Vol. 51, No. 24 Jan. 3, 1954

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

**LOUISE K KELLY
401 PATTEE LIBRARY**

32



faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Income tax

The following ruling by the Internal Revenue Service, of interest to faculty members who do research, was published in the IRS Bulletin of Dec. 30, 1963. The ruling is being printed at the suggestion of The National Association of College and University Business Officers Committee on Governmental Relations.

Treatment of research and related expenses incurred by college and university professors.

Advice has been requested concerning the deductibility for Federal income tax purposes of research expenses, including traveling expenses, incurred by college and university professors in their capacity as educators.

The facts presented are that the duties of a professor encompass not only the usual lecture and teaching duties but also the communication and advancement of knowledge through research and publication. Appointments are commonly made to college and university faculties with the expectation that the individuals involved will carry on independent research in their fields of competence and will put that research to use in advancing the body of learning in that area by teaching, lecturing and writing. It is customary, therefore, for professors to engage in research for the above purposes. Where the research is undertaken with a view to scholarly publication, the expenses for such purposes cannot usually be considered to have been incurred for the purpose of producing a specific income-producing asset.

Section 162(a) of the Internal Revenue Code of 1954 provides for the deduction of all the ordinary and necessary expenses paid or incurred during the taxable year in car-

Governor's budget message

Governor Scranton's budget message this week to the Legislature included an appropriation for the University in the same amount as approved for the 1963-64 fiscal year—\$25,090,000. The proposed budget contains \$510,000 in new operating funds in that the difference in the item for equipping General State Authority buildings was added to the general maintenance fund. The GSA equipment fund for the present budget is \$1,174,000 and for the new budget will be \$484,000. The amount required varies from year to year in accordance with building completion schedules.

A bookkeeping change adds a \$900,000 item for Social Security to the general operating fund for the 1964-65 budget. However, since a \$50,000 increase in Social Security costs already is mandated, the \$590,000 difference in the G.S.A. item was reduced to \$540,000 as the new operating funds.

President Walker made this statement about the budget:

Fackre lecture

Dr. Gabriel Fackre, associate professor of historical theology at Lancaster Theological Seminary who will be Chapel speaker Sunday, will also deliver the fourth in a series of lectures on "New Accents in Contemporary Protestant Thought," Saturday, Jan. 11, at 8 p.m. in Room 123 Chambers. The lecture is sponsored by the Faculty Committee of the University Christian Association and the public is invited.

The lecture will consider the sociological dimensions of recent theological trends and will be a critique of these developments.

Instruction costs

Per student costs of instruction for undergraduate students is \$1125 per year and for graduate students \$2,800, President Walker reported this week.

The costs include all direct costs of instruction and a pro-rated share of general administration, library and student services, maintenance, and other expenses.

Undergraduates pay \$525 of the total cost, the remainder coming from State appropriations and Federal grants. Out-of-State students pay 93% (\$1050).

Board and room costs, ranging from \$795 to \$840, are paid in entirety by students.

"At first glance, I am disappointed to find that Governor Scranton's 1964-65 budget request remains essentially the same as for the present year. I am aware, however, of the realities of constructing a budget when both the Governor and members of the Legislature appear to agree that no new taxes should be considered. Anticipated revenue increases from existing taxes largely will be required to meet mandated increases from past years.

"I am hopeful of the possibility of a readjustment in the appropriation under the terms of the legislation passed by the 1963 General Assembly establishing the State Council of Education. Under the terms of this legislation, the Council on Higher Education is required to review budget requests such as ours and to recommend budgets to the Governor. The Council had not been organized long enough to accept this responsibility when our budget request was submitted, so the Governor had no option except to make a tentative decision.

"I am scheduled to meet with the Council on Higher Education on January 31 to review our plans for 1964-65 and our need for state support during that year. Shortly thereafter, I will make a similar presentation to the House and Senate Appropriations Committees. I am confident that if, after these meetings, recommended adjustments are submitted to the Governor, he will consider them sympathetically."

Education of Teachers

The College of Education will offer a program of talks and general discussion on "The Education of American Teachers," title of Dr. James Conant's most recent book, Wednesday, Jan. 22, at 2:20 p.m. in the HUB Auditorium.

Dr. Earl E. Edgar, professor of educational services, will open the program with comments about critics of education, past and present, and about Dr. Conant in particular. Dr. Nicholas Masters, associate professor of political science, will give a brief presentation based on his work with Dr. Conant in the preparation of the book. Dr. Myron L. Coulter, assistant professor of elementary education, will give some views on the book from the standpoint of the teaching profession.

A general discussion, in which the audience will be given an opportunity to take part, will conclude the program.

(Continued on page four)

Continuing Education to grow — Keller

THE new Conference Center, expected to be completed in mid-1965, is a long-needed facility which will help Continuing Education face a period of very great expansion, says Edward L. Keller, director.

"The Center will help the University apprise the people of Pennsylvania of the total resources at Penn State," he adds, "because it will make possible the accommodation of many more groups than we ever had before. In the past we have had to turn down conferences and seminars because we didn't have adequate class and meeting rooms.

"As the University's resident summer program has grown, we have been squeezed out of dates for conferences, so the new building will add weeks to our programming.

"But I look on the Center as only a symbol of the great expansion to come in continuing education type of work. The public is demanding more non-resident education, as evidenced by recent Federal legislation, and it needs it desperately to help solve many of the current social problems—employment is only one—and it will take public education to do the job."

In the past, Keller says, a significant role has been played in continuing education by private colleges and universities and by volunteer organizations such as the Y.M.C.A. Their help will be needed in the years ahead, but the greatest expansion will have to be taken up by Penn State and other public institutions.

"I think the time is not too far off when the State Colleges will provide a great deal of adult education. A State-wide council for adult education may be formed, with all the public colleges cooperating to make best use of faculty and facilities. We will need to avoid duplication of disciplines where it isn't necessary to do so, but each college will have to help in the job ahead because it will be so big. I don't intend to exclude private colleges from the effort, but their role will be limited by their resources for such programs. I look for a greater amount of public money for continuing education."

ALL ADULTS

Attention to the needs of unemployed recent high school graduates and of adults in the older age brackets will account for some of the expansion, Keller says, but the entire adult group will want more non-resident education; the professional person to keep up to date, the average adult, whether college graduate or not, to improve in his position, and everyone to broaden his horizons

through leisure-time educational programs.

"I think we can prepare for the greater numbers of people who will require our services," Keller explains, "but there is little time ahead and there is a very serious shortage of teachers to be met. I think many legislators who have been generous in proposing and supporting public funds for education have failed to see how serious the teacher shortage really is, and it may get us into real trouble.

TEACHER NEEDS

"For example, all the proposed public junior colleges will have to find teachers at the same time existing colleges and universities are in the market. The recent vocational education bill passed by the Congress will accentuate the teacher shortage.

"So I foresee Continuing Education playing a big role in providing those teachers while we are also trying to find teachers for our own programs.

"To me it suggests that there will have to be a change in our concepts of the teacher's qualifications. We are going to have to look to those who once trained for teaching but are not in the field for some reason: the housewife who can now devote a few hours per week or the practicing engineer, scientist, or professional man who can also give a few hours of his leisure time. There will have to be incentives for them, of course, but if the public wants this education it will find a way to provide the incentives.

"I think, too, we may have to adjust our thinking about other methods of providing education, to make more use of correspondence instruction, to emphasize more credit-by-examination, and to make greater use of mechanical methods—closed-circuit television, telelectures, and other visual aids."

Keller doesn't despair of the job of finding teachers; he recalls the beginning of E.S.M.W.T. (war training programs) in the early 'forties when Continuing Education had the same problem, and solved it by encourag-

ing a great many people to teach who had never done so or who had long ago given up teaching.

"The people are there who can do the job," he says, "it is only a question of finding them and giving them them the reason to teach. So the very first job we must do in Pennsylvania is to survey the entire State for potential teachers, and we need to start that job immediately."

Keller has adequate indications that the demand has already started in the comparative data of Continuing Education's enrollment statistics of the past few years. Comparing the 1959-60 and 1962-63 enrollments for the various types of Continuing Education programs, he shows a 15-70% increase in only three years, as follows:

	1959-60	1962-63
Credit courses	3,000	5,100
Unit courses	5,300	6,200
Informal	22,000	31,000
Correspondence	10,000	13,000

ALSO IN THE FUTURE

The new Conference Center in a sense also symbolizes probable changes in Continuing Education:

1. *Expansion of informal seminars and conferences all over the State.*
2. *Expansion of all programs into other areas, as the need was demonstrated in recent engineering and medical surveys.*
3. *Offering credit work in many more cities and towns not now served directly.*
4. *Greater development in the use of the Audio-Visual Aids Library.*
5. *Close times with Agricultural Extension in programs of mutual interest.*

"It is certainly encouraging to me that the Federal government has shown an increasing interest in public education," Keller concludes. "I don't think there is any doubt that it will become even more involved as time goes on, and that all public institutions will therefore play an increasingly greater role.

"But I think some people are inclined to look at this interest as being reflected in resident programs, at least in the higher education field. To me, non-resident work, or continuing education, is not only going to grow more than resident instruction, but it is going to be even more complex.

"We can't wait any longer to plan for it; Statewide we must all cooperate to get the job done."

GRANTS



Rosemary Schraer, biophysics, \$12,522, U. S. Public Health Service, for studies of cellular metabolism in avian oviduct.

Clarice G. Taylor, hotel and institution administration, \$29,500, Commonwealth of Pennsylvania, for institution food research and service program.

L. H. Lattman, geology and geophysics, \$1,850, National Science Foundation, for studies of Fracture Traces in the Mohave Desert.

R. L. Day, marketing, \$900, Carnegie Institute of Technology, for continuance of testing consumer preferences.

Denise Stevens, music, \$750, American Philosophical Society, for research in liturgical music for the 14th century.

A. H. Waynick, electrical engineering, est. \$4,000, Texas Instruments Foundation, semiconductor products for research and instructional purposes.

A. M. Wellington, educational services, \$4,000, U. S. Office of Education, for preliminary work in developing "Counseling and Guidance Training Institute."

L. H. Harshbarger, religious studies, \$15,000, The Church Society for College Work, to support religious studies research program.

R. F. Gentry, veterinary science, \$1,000, American Poultry and Hatchery Federation, for studies of "The Control of Chronic Respiratory Disease through Hatchery Sanitation."

E. R. McLaughlin, engineering experiment, \$18,000, E. I. DuPont de Nemours and Co., for studies in heat transmissions and water vapor transmissions.

E. C. Pollard, biophysics, \$193,625, N.A.S.A., for study of the structure and function of living cells.

J. O. Almquist, dairy science, \$1,200, National Association of Artificial Breeders, to support research entitled "Metabolism of Bovine Semen."

R. C. Miller and T. L. Merritt, animal industry and nutrition, \$3,000, Baker, Moore and Mein Co., Inc., to support research in horse nutrition.

R. E. McDermott, forestry, \$23,000, North Atlantic Treaty Organization, for symposium on genetic improvement of forest trees for disease and insect resistance.

R. W. Lindsay, metallurgy, \$800, St. Joseph Lead Co., for the cooperative program in metallurgy.

R. B. Freeman, Jr., psychology, \$4,189, U. S. Public Health Service, for study of visual cues for judgments of shape and slant.

J. S. Boyle, plant pathology, \$4,300, National Science Foundation, for Summer Science Training Program for Secondary School Students.

R. F. Gentry, veterinary science, \$2,000, Merck and Co., Inc., for research on avian diseases.

Slide service

An expanded service of preparing slides for instructional purposes, at low cost, is now being provided by the University Division of Instructional Services through the Still Photography Services, Room 13, Carnegie.

Special rates, applying only to the production of slides for classroom use, are now charged for 35 mm., black and white or color, 35 mm. black and white film negative slides, and black and white glass slides, 3/4 by 1 in. or 2 by 2 in. if the cost is borne by an academic department's instructional budget.

The rate schedule, together with other pertinent information, is as follows:

35 mm. slides—black and white or color copies of flat copy, books periodicals, etc., not larger than 14 in. by 21 in., two weeks minimum time required—24 cents in card mounts, 35 cents in glass mounts, with a minimum charge of \$3.00.

35 mm. negative slides—black and white, line copy only in books, periodicals, etc., not larger than 14 in. by 21 in., one week minimum time required—10 cents for card mounts, 15 cents in glass mounts, and \$1.00 minimum charge.

3 1/2 by 4 in. or 2 by 2 in.—glass slides, one week minimum time, 75 cents for glass mounts and a minimum charge of 75 cents.

PERSONNEL MATTERS



James R. Hammerle, a 1959 graduate of Penn State and agricultural engineer for the U. S. Rubber Co. in Indonesia since 1960, has been appointed instructor in agricultural engineering.

Dr. James J. Reid, a member of the faculty since 1936 and professor of bacteriology since 1946, died Sunday, Jan. 5, at the age of 65. He was a graduate of Purdue University and prior to coming here was a member of the faculty at the University of Wisconsin.

Philip J. Packard, farm foreman for 18 years until his retirement in 1942, died Christmas Day. He was the father of Vance Packard, noted author and Distinguished Alumnus of the University.

Orville R. Keister, lecturer in accounting, has been named assistant professor of accounting. He has been a member of the faculty since 1961. He obtained both bachelor's and master's degrees in business administration from Ohio State University.

CALENDAR



Friday, Jan. 10

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering A.

Saturday, Jan. 11

Organ recital, by Leonard Raver, 8:30 p.m., Schwab Auditorium.

Sunday, Jan. 12

Chapel Service, 10:55 a.m. Schwab Auditorium. Dr. Gabriel Fackre, Lancaster Theological Seminary, "The New Breed."

Monday, Jan. 13

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Robert Leeper, visiting professor of psychology from Oregon State University, on "Newer Ideas about Personality: After Freud, What?"

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. Joseph Marin, on "Needed Research in Solid State Mechanics."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Steven Barber, Owens Illinois Glass Co., Toledo, on "Mechanical Properties of Glass."

Tuesday, Jan. 14

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. Edward Erdelyi, on "Research on Generator Noise."

Meeting of University Senate, 3:55 p.m., Room 121 Sparks.

Thursday, Jan. 16

Phi Delta Kappa dinner meeting, HUB dining room "A." Cafeteria dinner at 5:15 p.m., speaker at 6 p.m., Dr. Norman Miller, superintendent of Tyrone Public Schools, on "Problems Facing the Local School Administrator."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. C. H. DePuy, Iowa State University, on "Chemistry of Cyclopropanols."

Friday, Jan. 17

Concert by Penn State Singers, directed by Raymond Brown, 8 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Saturday, Jan. 18

Varsity sports: Gymnastics, vs. Springfield, 3 p.m.; fencing, vs. Cornell, 2 p.m.; wrestling, vs. Cornell, 8 p.m.

Graduate Record exam, 8:45 a.m., place to be announced.

REMINDER

Deans of the several colleges are reminded by Scheduling Officer John E. Miller that Course Offering Request Forms for the 1965 Winter Term are due in the Office of the Vice President for Resident Instruction on or before January 15. Department heads must have recommendations into their respective dean's office prior to that date.

SPEECH

The new telephone number for the Speech Department was listed incorrectly in the Faculty Bulletin last week. The number is 865-3461.

Income—

(Continued from page one)

rying on any trade or business. Among the items representing business expenses are traveling expenses (including amounts expended for meals and lodging other than amounts which are lavish or extravagant under the circumstances) while away from home in the pursuit of a trade or business.

Section 1.162-1(a) of the Income Tax Regulations provides, with certain exceptions not here material, that business expenses deductible from gross income include the ordinary and necessary expenditures directly connected with or pertaining to the taxpayer's trade or business. See, however, section 274(c) of the Code and section 1.274-4 of the regulations which impose certain restrictions on the deductibility of travel expenses incurred by an individual who, while traveling away from home in the pursuit of trade or business, engages in substantial activity not attributable to such trade or business. See also section 274(d) of the Code and section 1.274-5 of the regulations for the rules with respect to the substantiation of traveling expenses.

Based on the facts presented, it is held that research expenses, including traveling expenses properly allocated thereto, incurred by a professor for the purpose of teaching, lecturing, or writing and publishing in his area of competence, as a means of carrying out the duties expected of him in his capacity as a professor and without expectation of profit apart from salary, represent ordinary and necessary business expenses incurred in that capacity and are, therefore, deductible under section 162(a) of the Code. Stenographic and other expenses incurred in preparing a manuscript for this purpose and its publication costs are likewise deductible as business expenses under section 162(a) of the Code. See, however, G.C.M. 11654, C.B. XII-1, 250 (1933), with respect to capital expenditures connected with such research. The responsibility rests with each professor to show that the amounts claimed are reasonable in relation to the research performed and that the research is in his

area of competence; that is, that the research is directly related to the general field in which the professor is performing services as an educator.

In the event income results directly from teaching, lecturing, or writing based upon research the cost of which has already been deducted, such cost may not again be taken into account in determining the income to be reported for Federal income tax purposes.

See Revenue Ruling 55-385, C.B. 1955-1, 100, with respect to the treatment of royalty and other income from writing as self-employment income.

This ruling does not cover the situation where a professor's activities may bear some similarity to those described above but are such as to constitute a separate trade or business. (End of Official Text)

THE ARTS



organ concert

Dr. Leonard Raver, Chapel organist, will include in his recital Saturday (Jan. 11) at 8:30 p.m. in Schwab Auditorium, the following program of music composed by traditional and contemporary composers:

Dietrich Buxtehude's "Prelude and Fugue in F Sharp."

Carlos Seixas' "Sonata in C Major."

Paul Hindemith's "Sonata I."

Bach's "Fantasy and Fugue in G Minor" and Three Chorale Preludes.

Francois Couperin's "Offertoire."

Vincent Persichetti's "Shimah B'koli."

Jehan Alain's "Litanies."

singers

The Penn State Singers, directed by Raymond Brown, will present a concert Friday, Jan. 17, at 8 p.m. in Schwab Auditorium.

LIBRARY TOUR

A talk on library materials, followed by a tour of Pattee Library, will be held Thursday, Jan. 16, 3:50-5:30 p.m., initiating at Room 5, Pattee. The tour has been arranged for graduate students by the staff of the Reference Department. Those wishing to attend should sign at the Reference Desk or Information desk so the proper number of guides may be arranged.

GRADUATE EXAM

The Graduate Record Examination will be held Saturday, Jan. 18, at 8:45 a.m. The place will be announced Tuesday, Jan. 14. Dr. Gordon H. Pritham, 104 Frear Lab, is the local arranger for the Examination and may be contacted for information.

LUNCHEON CLUB

Dr. Robert Leeper, visiting professor of psychology from the University of Oregon, will be the speaker for the Faculty Luncheon Club meeting of Monday, Jan. 13, at 12:30 p.m. in the HUB dining room "A." He will speak on "Newer Ideas About Personality: After Freud, What?"

EXHIBIT

Pile fabrics which simulate natural firs make up an exhibit now on display in the first floor show case of Home Economics South (near Room 105). Arranged by Dr. A. F. Tesi, associate professor of clothing and textiles, the exhibit includes fabrics for wearing apparel and home furnishings, provided by Glenoit Mills and by Sidney Blumenthal and Co., as well as foam laminates from Scott Paper Co.

PDK MEETING

Dr. Norman Miller, superintendent of Tyrone Public Schools, will speak at the regular meeting of Phi Delta Kappa education fraternity, Thursday, Jan. 16, at 6 p.m. in HUB dining room "A." He will speak on "Problems Facing the Local School Administrator." Those not wishing to attend dinner, which begins at 5:15 p.m., are nevertheless invited to hear the talk.

faculty BULLETIN

Vol. 51, No. 25 Jan. 10, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

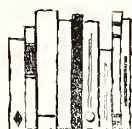
W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

BOOKS



Stanley Weintraub, associate professor of English, edited and wrote the introduction for "The Yellow Book: Epitome of the Nineties," to be published in the fall by Doubleday Anchor Books. "The Yellow Book" was the most famous literary magazine of the 1890's, publishing fiction, prose, and poetry of such authors as Henry James, Harold Frederic, Henry Harland, H. G. Wells, Arnold Bennett, Max Beerbohm, George Cissing, and Kenneth Grahame.

Brotherhood

The 11th annual Brotherhood Banquet, sponsored by the Committee on Interreligious Affairs, will be held Tuesday, Feb. 11, at 6 p.m. in the HUB ballroom.

Tickets will be on sale at the HUB desk beginning next week and at the Helen Eakin Eisenhower Chapel, priced at \$2.50 per person. Reservations may be made by calling 865-6540.

The Most Reverend William G. Connare, Bishop of the Roman Catholic Diocese of Greensburg, Pa., will be the speaker, using the subject, "Who Is My Brother."

Faculty members wishing to attend are urged to either purchase or reserve their tickets immediately so that the banquet committee, headed by Lloyd E. Adams, may plan for the affair.

U.N. in Africa

Roger Wilson, former senior advisor to the United Nations Civilian Operation in the Congo, will lecture on "The Role of the United Nations in Africa," Sunday, Jan. 19, at 8 p.m. in the Mineral Science Auditorium.

The talk is sponsored by the department of political science and will cover such crucial problems as the efforts of the U. N. to bring a modification of the racial segregation policies and South Africa.

Now professor of education at the University of Bristol, England, Wilson is a member of the Society of Friends in Great Britain. has had extensive administrative and field experience in overseas relief and rehabilitation work. For several years he was general secretary of the Friends Relief Service in Great Britain and he has also served as adviser to the British Colonial Office.

Board increase

President Walker announced this week an increase in board and room charges of \$10 per term.

"Despite all possible economies and every effort to increase efficiency, it is impossible to counteract the spiraling rise in cost of food, services, equipment, salaries, and wages necessary for operation of the residence halls at a standard needed for health and welfare of the students," he said.

The new charges, which become effective with the Summer Term, will be \$275 per term for double room and \$290 per term for a single room.

Construction

The General State Authority has received bids totalling \$1,612,600 for construction of the Service and General Stores Buildings to be built north of the Beaver Stadium and west of Farm 3 buildings.

The six-building complex will have a gross floor area of 116,068 square feet and will house the department of maintenance and utilities and the shops and vehicle maintenance garage.

Sordoni Construction Co. of Forty Fort was low bidder for the general construction.

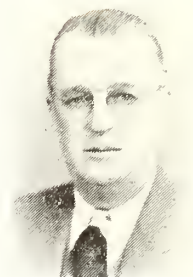
Honored

Dr. W. Paul Campbell, associate professor of music education, has been given honorary life membership in the Pennsylvania Association of Future Homemakers of America for his role as permanent director of the F.H.A. Chorus. The honor was bestowed at a Forum of the Association Jan. 15 in Harrisburg.

PERSONNEL MATTERS



Roger W. Rowland, of New Castle, has been re-elected president of the Board of Trustees, and all other officers were also re-elected to one-year terms at the meeting of the Board in Harrisburg last weekend.



Rowland

Walter W. Patchell, of Haverford, is vice-president; President Walker is secretary; McKay Donkin is treasurer; and C. S. Wyand and W. E. Kenworthy are assistant secretaries.

Re-elected to the Executive Committee, which also includes Mr. Rowland and Dr. Walker as ex officio members, were Milton Fritsche, H. Thomas Hallowell, William D. Harkins, Ralph Hetzel, B. C. Jones, Albert E. Madigan, J. L. Mauthe, J. Collins McSparran, J. Lewis Williams, and Mr. Patchell.



Patton

Thomas H. Patton, a member of the Agricultural Extension staff since 1930, has been appointed director of the Agricultural and Home Economics Extension Service, effective Feb. 1, succeeding Dr. Russell E. Larson, who has been acting director since last July when he was appointed dean of the College of Agriculture.

A 1930 graduate in dairy husbandry, Patton received the master of science degree in public administration from Harvard University in 1951. From 1930 to 1941 he was assistant county agent in Erie County and from 1941 to 1943 was county agent in Lackawanna County. He became assistant director of the service in 1943, was placed in charge of the 16-county Northwest Region in 1951, and since 1959 has been associate director.

Dr. C. David Schmulbach, assistant professor of chemistry, is currently on leave as visiting professor at the U. S. Naval Post Graduate School in Monterey, Calif. His leave will continue through Aug. 31, 1964.

Dr. Clyde R. Burnett, associate pro-

(Continued on page three)

Placement Service

COLLEGE and university placement services traditionally serve primarily as a common meeting ground for seniors and potential employers. Typically the success of placement activity is measured by the numbers or percentage of students who obtain jobs within a short time of graduation, preferably before commencement.

Dr. Norman Frisbey, the new director, fully expects the Penn State Placement Service to include the aforementioned aims as part of the overall goal. In addition, and perhaps of more ultimate significance, the Placement Service will extend into problem areas commonly ignored and begin exploring methods of qualitative improvement. For example, problems of immediate interest are the placement of non-technical graduates, women graduates and students with "average grades." It is expected that the placement of graduates can be improved by a better exchange of information between the academic departments and employers via the Placement Service; by encouraging the students' attention to employment opportunities at an earlier stage in their academic career; and through helping the student develop tools for the best decision making. Changes will also be made which will result in improved service to alumni and the Commonwealth Campuses.



Frisbey



Ford

This fresh approach to placement was stimulated initially by Dr. Donald H. Ford, who was director of the Placement Service for about ten months of last year. He will continue to take an active part in major planning and programming for Placement in his new position as Coordinator of Student Services. Dr. Frisbey, as director of Placement will be responsible for developing and implementing new programs, as well as conducting daily operations. Raymond Amalong, associate director, will continue to be responsible for the activities of the Teacher Placement Division.

The Placement Service hopes to:

1. Encourage faculty members to refer students for consultation with the Placement staff about career plans and employment opportunities.
2. Encourage faculty to consult with Placement Service about information on opportunities for graduates in their departments.
3. Make available to faculty and students the information resources the Service has accumulated: college placement annual, list of interviewing organizations, descriptive company literature, etc.

Placing the technical or professional student with grades average or above who has a clearcut idea of what he wants to do has never been a problem, but he is only one in three of the graduating seniors. Dr. Frisbey says that while we can eventually help this student do a better job of career planning attention will first be focused upon the academically less successful and undecided.

The Placement Service's efforts are being broadened to give much more attention to the career and employment plans of the growing proportion of students graduating with nonprofessional degrees. Placement has been effective for students with degrees in engineering, the natural sciences, and in teaching, and moderately effective for students with business degrees. Relatively little attention has been given to students in colleges such as Liberal Arts and Arts and Architecture.

Because of the large number of young women graduating at Penn State, the Service plans to give greater attention to the career concerns of women.

In addition to this broadening of activities, the Placement Service is re-directing the locus of its work. A clear need exists for better preparation on the part of the student with respect to career plans. Through the combined efforts of the Placement Service and the Division of Counseling, it is planned that eventually all students will have the opportunity, particularly in the junior and senior years, to obtain a better understanding of a chosen field, opportunities for employment, and other information necessary to wise career choice and subsequent job satisfaction. While this objective is an ambitious one, the elements essential to making it a reality already exist. Counseling with respect to career choice is now offered to those graduating students seeking it. A sizable library of information about potential employers is maintained by the Placement Service, and the file is constantly being updated and expanded.

A much wider distribution of information about career and employment opportunities has been needed to keep both students and faculty adequately informed. A system has been developed utilizing new, more comprehensive forms which employers fill out prior to their visit describing specific jobs to be interviewed for, location, opportunities for advancement, training programs, etc. The use of automatic duplicating equipment makes possible a wide distribution of this information. These notices, placed in University Placement Service Opportunity" books, are available in the departments. In general, more complete information has been made available to students to assist them in their employment planning. In addition to making the College Placement Annual available, a mimeographed list of all employers coming to campus during the year to interview students was prepared and a summary of the kinds of talents they sought in the past was included. The list was made available to all students so they could make advanced plans about contacting these employers.

However, the counseling services planned for the future are not yet a reality and more than just additional staff is necessary to provide the services that are anticipated. More knowledge about what has happened to past graduates is needed to help those in the future. Little is known currently about the various potential sources of employment for each type of graduate particularly non-technical, or about the use and utilization of graduates by employers. Innovation and expansion of research and resource efforts are intended to provide such necessary information.

Better placement of graduating students involves not only better preparation on the part of the students with respect to career choice but also demands that employers who hire our graduates understand the changing nature of Penn State's character, in particular the increasingly higher calibre of graduates. Also, many employers are not knowledgeable about the nature and variety of the fields in which we prepare students. The "education" of employers with respect to the qualifications and characteristics of our graduates is an objective of the Placement Service.

The most effective Placement of graduates can be facilitated by close cooperation between the Placement Service and the faculty. The nature and extent of placement activity undertaken by academic departments has varied. The continual increase in enrollments and in potential employers makes much placement work a time-consuming burden. It is the Placement Service's hope to aid any department that it can, both in reducing the amount of clerical work involved for the department and in providing informational material. In turn, departments and individual faculty members can aid the Placement Service by providing information which they receive about employment opportunities.

While much of the above material is directed toward the activities of General Placement in business, industry, and government, the Teacher Placement Division of the University Placement Service also continues to expand in services and activities at a rapid

pace. In 1962-63 approximately 20,000 vacancies were received representing all levels of education. Recently, Amalong has been working exclusively with college level openings and public school administrative positions. The number of colleges served last year numbered over 500, and included employment opportunities from instructors to college president. There will be continued growth in the college placement activities, and, with increased numbers of opportunities, Teacher Placement will better serve the university graduate student population. In order to offer equal opportunity to all graduates, faculty members who learn of college positions are asked to inform teacher placement so that a central clearing house of vacancies may be maintained for review by all active registrants, on campus as well as on the job.

Public School classroom teachers, secondary and elementary, are being offered the same placement opportunity as administrators and college teachers. Expansion into the "on-campus" interview is growing very rapidly and continued growth appears to be probable in this area.

The Teacher Placement Division is also expanding its service to our alumni and to reciprocity students from other colleges and universities. Teacher Placement maintains an extensive resource file which contains brochures, pamphlets, posters, catalogues, and reference books describing schools, communities, certification laws, and vacancies. Also included in this library is a 1964 public school survey which has just been completed for the school districts in Pennsylvania.

In order that students interested in teaching who are not receiving a Pennsylvania Teaching certificate have an opportunity to learn of positions, the private school vacancy listings are maintained by Teacher Placement, and a descriptive list of all private schools is maintained and expanded in the resource room. Registration in Teacher Placement is open to non-certified students, as well as education students, for these openings.

Agencies outside the university, such as school districts and the Department of Public Instruction, often request information from Teacher Placement to formulate such items as starting salaries and general information regarding supply and demand of teachers.

PERSONNEL —

(Continued from page one)

professor of physics, will be on leave until June 30 to engage in research and teaching at the University of Wisconsin.

Dr. Robert D. Pashek, professor of business administration, is on leave for the academic year to serve as visiting professor of transportation in the School of World Business at San Francisco State College, Calif.

David C. Beppler, instructor in agricultural engineering, will continue on leave during the Winter Term to work toward his doctorate in mechanical engineering.

ITEMS OF INTEREST



ARTICLES AND PAPERS

At the 18th annual meeting of the Northeastern Weed Control Conference, in New York City, papers by the following: **NOLL, C. J.**, horticulture, "Chemical Weeding of Vegetable Crops"; **DUNCAN, J. M.**, agronomy, on turfgrass experiments; **SOMMER, W. E.**, forestry, "Control of Riparian Vegetation with Phenoxo Herbicides and Their Effect on Streamflow Quality"; **HARAMAKI, CHIKO**, horticulture, chemical weed control of transplanted annual flowers; **OLIVER, C. S.**, ornamental horticulture extension, chemical weed control in selected Pennsylvania nurseries.

BRITTEL, K. R., art education, "Factor Analysis of Three Dimensions of the Art Judgment Complex: Criteria, Art Objects, and Judges," in the Winter issue of The Journal of Experimental Education.

—with **BURKHARDT, R. C.**, art education, "Strategies of Spontaneous, Divergent, and Academic Art Students," in the Fall issue of Studies in Art Education.

BLEZNICK, D. W., Spanish, Italian, and Portuguese, "Letter Writing in Golden Age Spain," at the annual convention of the Modern Language Association of America in Chicago.

BROWN, J. L., JR., Odnance Research Laboratory, "Relation between Outputs of a Full-Wave and Half-Wave Linear Rectifier for a Class of Non-Gaussian Inputs" in the October issue of IEEE Transactions on Information Theory.

COOPER, E. J., zoology, with Herbert Hidu and J. K. ANDERSON, "Growth and Production of Largemouth Bass in a Small Pond," in the October issue of Transactions of the American Fisheries Society.

COYLE, J. J., transportation, "Simulation and Transportation" at the Fourth Annual Meeting of the Transportation Research Forum in Boston.

CREECH, R. G., horticulture, and **LOERCH, J. D.**, biochemistry, "Mutation-related Differences in Starch Granule Morphology and Activity of Specific Enzymes in Maize Endosperm," before the genetics section, Crop Society of America, at Denver.

ENGLE, A. J., chemical engineering, "Mass Transfer and Contactor Efficiency in a Stirred Liquid-Liquid Reactor," in the November issue of the American Institute of Chemical Engineers Journal, with O. A. Hougen, University of Wisconsin.

FERRARA, W. L., accounting, "Responsibility Accounting and the Contribution Approach," in the December issue of the Bulletin of the National Association of Accountants."

—"Relevant Costing—Two Points of View" in the October issue of The Accounting Review.

HEALY, G. W., metallurgy, "Pyrochemistry of Reactions between Molten Steel and Slag," at the 21st Electric Furnace Conference of the Metallurgical Society of the American Institute of Mining and Metallurgical Engineers in Chicago.

CALENDAR



Friday, Jan. 17

Penn State Singers concert, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Saturday, Jan. 18

Graduate Record Exam, Room 112 Chambers, 8:30 p.m.

Varsity sports: fencing vs. Cornell, 2 p.m.; gymnastics vs. Springfield, 3 p.m.; wrestling vs. Cornell, 8 p.m., all in Rec Hall.

Sunday, Jan. 19

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Leland Jamison, head of the department of religion, Syracuse University, on "The Final Examination."

Alard Quartet Concert, 3 p.m., Schwab Auditorium.

Hillel Graduate Association lecture, 8 p.m., Hillel Foundation. Dr. Paul Edmonston, associate professor of art education, on "The Image of Man in Contemporary Art."

Lecture by Roger Wilson, on "The Role of the United Nations in Africa," 8 p.m., Mineral Industries Auditorium.

Monday, Jan. 20

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Edna E. Sommerfeld, assistant dean for continuing education in Home Economics, on "Home Economics in the USSR."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Yechiel Weitsman, on "Effects of Couple-Stresses in Linear Elasticity—Two Dimensional Case."

Home Economics Seminar, 3:55 p.m., Room 14 Home Economics. M. Geraldine Gage, on "Saving and Investing by Rural Non-Farm Families: Centre County."

Wednesday, Jan. 22

Alard Quartet Concert, 8:30 p.m., Schwab Auditorium.

College of Education public colloquium, 2:20 p.m., HUB Auditorium. Drs. Earl Edgar, Nicholas Masters, and Myron Coulter, in views on the education of American teachers.

Thursday, Jan. 23

Psychology Colloquium, 8 p.m., Room 112 Chambers. Dr. Lewis P. Lipsitt, Brown University, on "Learning in Infancy."

Friday, Jan. 24

Artists Series Program by The Festival Associates, Thomas Dunn conducting, 8:30 p.m., Schwab Auditorium.

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

King of Prussia

Fifty-nine graduate students and 20 special students enrolled for the first classes at the new King of Prussia Graduate Center, Dean A. Witt Hutchison announced.

The classes being offered, which meet each Monday and Thursday evening, lead to the master of engineering degree with a major in engineering science.

THE ARTS



singers concert

The Penn State Singers concert this evening (Friday, 8:30 p.m.) in Schwab Auditorium will include Agostino Stefani's "Vieni, O Cara Amata Sposa," with Joseph Krimmel as tenor soloist, and Alessandro Scarlatti's "Pastorale per Nativita di Nostro Signore Gesu Cristo," with Josephine Sbarbara. Both featured works will have instrumental accompaniment.

The balance of the program, directed by Raymond Brown, will include songs by Thomas Weelkes, John Bennet, Henry Purcell, Thomas Morley, John Jackson, John Baidon, and Thomas Arne in the madrigal tradition, three Psalms by Jan Sweelinck, and five English folk songs by the late Ralph Vaughan Williams.

The 27-voice Singers was organized six years by Brown to present madrigal music, largely of Renaissance and Baroque periods.

artists series

Thomas Dunn and The Festival Associates, including the Festival Orchestra of New York and vocal soloists Martina Arroya, soprano, Charles Bressler, tenor, and John Fiorito, baritone, will be featured in the next Artists Series program Friday, Jan. 24, at 8:30 p.m. in Schwab Auditorium.

The Festival Orchestra, consisting of many of the outstanding instrumentalists in New York City, is an ensemble specializing in music for reduced orchestra with a repertoire of the Baroque period, Haydn and

Mozart compositions, and contemporary works by Stravinsky, Barber, Bartok, Britten and other masters. Formed several years ago with Thomas Dunn as conductor, the Orchestra has been featured already this season in three Bach concerts in New York, in four performances of Handel's "Messiah," and recorded a Bach album for Decca Gold Label Records.

Included in the program will be Handel's Concerto in G Minor for oboe and strings; Bach's Cantata 55; Poulenc's "Le Bal Masque"; Stravinsky's "Pastorale" for soprano and woodwinds; and de Falla's "El Retablo de Maese Pedro."

Tickets will be on sale to the public Wednesday and Thursday, Jan. 22-23, from 9 a.m. to 5 p.m.

recording

A recording made by Dr. Leonard Raver, chapel organist, and directed by Denis Stevens, professor of music, and which features music of Thomas Roseingrave (1692-1766) has been released by Lyricord.

The recording was made in famous Fenton House, near London, where the Benton Fletcher Collection of early keyboard instruments is housed. Three of the many outstanding instruments of the 17th and 18th centuries were used in the recordings.

pavilion theatre

"Dimmy and the Witches," by William Gibson, will open the winter season at Pavilion Theatre Tuesday, Feb. 4 and continue through Saturday, Feb. 8. Ellis Grove will direct.

The play is a fantasy in which three witches who run the world find themselves helpless as Dimmy becomes imbued with their power.

MAPLE ROOM

Lunch only will be served during the Winter Term at the Maple Room in Home Economics. The cafeteria opens at 11:45 a.m. Monday through Friday and provides tasty lunches prepared by students in classes in foods and nutrition.

GRADUATE FACULTY

The meeting of the Graduate School Faculty scheduled for Jan. 21 has been cancelled.

FLC

Dr. Edna Summerfeld, assistant dean in the College of Home Economics, will discuss "Home Economics in the USSR" at the regular Faculty Luncheon Club meeting Monday, Jan. 20, at 12:30 p.m. in HUB dining room "A."

TEACHER EDUCATION

The College of Education is sponsor of a discussion on the education of American teachers which will be held Wednesday, Jan. 22 at 2:20 p.m. in the HUB auditorium. Speakers will include Drs. Earl Edgar and Myron Coulter, of the College of Education, and Dr. Nicholas Masters, department of political science.

FACILITIES

Actions by the Board of Trustees at its meeting last weekend included approval of construction of 16 tennis courts in the East Halls area; designation of the former team dressing rooms at old Beaver Field as Human Performance Building; and designation of the three structures now under construction in Hort Woods as Arts I, II, and III.

RUSH AWARD

The 1964 Benjamin Rush Award of the Dauphin County Medical Society has been given to the Milton S. Hershey Foundation because of its endowment of the Medical Center to be operated by the University at Hershey. The award was made Jan. 7, with Samuel F. Hinkle, president of the Hershey Chocolate Co., representing the Foundation.

faculty BULLETIN

Vol. 51, No. 26 Jan. 17, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

THE ARTS



souzay concert

Gerard Souzay, baritone, with Dalton Baldwin as accompanist, will sing song cycles by Jean Philippe Rameau, Robert Schumann, Francis Poulenc, and Richard Strauss, in his concert Thursday, Jan. 30, at 8:30 p.m. in Schwab Auditorium.

The French-born and trained singer has been a favorite in this country for a decade or more but is equally well received in Europe, South America, Australia, New Zealand, and Africa. He has appeared in opera, in solo recitals, on recordings, and in radio or television. His Town Hall, New York, concerts are sellouts. His repertoire includes folk songs in 17 different languages or dialects, including an Irish brogue. One of his most famous recordings is "The World of Song," for Capitol, and his Epic releases demonstrate his skill with French and German songs.

Tickets for the concert will be on sale to the public Tuesday and Wednesday, Jan. 28 and 29, beginning at 9 a.m.

artists series

The program by The Festival Orchestra of New York, Thomas Dunn conductor, tonight (Friday) at 8:30 p.m. in Schwab Auditorium, will feature a performance of Manuel de Falla's "El Retablo de Maese Pedro (Master Peter's Puppet Show)" with John Fiorito as Don Quixote, Martina
(Continued on page two)

Cited



President Walker was honored last Friday, when the Board of Trustees met in Harrisburg, by the presentation of a citation by Dr. Charles H. Boehm, superintendent of Public Instruction of the Commonwealth, for "his leadership in the reorganization of The Pennsylvania State University and his vision of long-range planning."

Archaeology

Dr. David N. Freedman, professor of Hebrew and Old Testament Literature at Pittsburgh Theological Seminary, and co-author of "The People of the Dead Sea Scrolls," will speak on the subject, "New Accents in Archaeology and Biblical Studies," Saturday, Jan. 25, at 8 p.m. in Room 123 Chambers.

The lecture is one of the regular Saturday lectures sponsored by the Faculty Committee of the University Christian Association and arranged in cooperation with the office of the Coordinator of Religious Affairs.

Mr. Freedman was engaged in excavations at the site of the ancient city of Ashdod, Israel, during last summer. He is editorial consultant for various publishers.

Day awarded

Dr. Ralph L. Day, professor of marketing, has been awarded a Ford Foundation Faculty Fellowship for research on business and will be released from University duties during the 1964-65 academic year for a nine-month period.

He will continue his research on consumer preferences for the physical characteristics of products, requiring planning and conducting of large scale preference tests and the developing of computer programs for analysis of results.

Philosophy meeting

Stanley Kauffman, Harold Rosenberg, Harold Taylor, and Vincent Tomas will be the featured speakers in a Conference in Philosophy on "The Arts Today and The Condition of Man," Feb. 7-9 at the Conference Center. Faculty members may participate in the symposium and there is no registration charge.

The department of philosophy, the Center for Continuing Liberal Education, and Continuing Education are sponsors of the symposium, which will begin, after registration, Friday, Feb. 7, at 8 p.m. in the Conference Center Auditorium with a lecture by Rosenberg, who is the noted art critic and historian and author of "Arshile Gorky" and "Tradition of the New."

Saturday's speakers will be Harold Taylor, former president of Sarah Lawrence College and author of several volumes related to art, at 3 p.m., and Stanley Kauffman, film and literary critic and contributing editor to the New Republic, at 8 p.m.

Vincent Tomas will speak at 2 p.m. Sunday, following which the four speakers will offer a panel discussion before the conference concludes at 5 p.m.

Trustee actions

The Board of Trustees approved the following actions at its meeting Jan. 11 in Harrisburg:

Sketch plans for four residence hall units, accommodating 1232 students, to be constructed northwest of the present East Halls. Construction is expected to be complete in 1966, bringing total campus residence hall capacity to 12,200.

Revised sketch plans for the addition to the HUB, to be built at the southeast corner of the present building. The addition will include a ballroom, new Terrace Room with kitchens, and offices and meeting rooms for student organizations.

A change in policy to permit an increase in loans to students from a maximum of \$500 to a maximum of \$1,000 for one year and a total maximum of \$4,000 for four years from a present maximum of \$1,000.

NSF traineeships

To speed up the output of students with graduate engineering degrees, the National Science Foundation has initiated a program of Graduate Traineeships, the awards to be made for the 1964-65 academic year.

The grants will provide stipends for specific numbers of graduate students, primarily first-year, and allow-
(Continued on page four)

SENATE MINUTES



MEETING OF JANUARY 14, 1964

The University Senate met at 3:55 p.m. on Tuesday, January 14, 1964 in Room 121 Sparks Building with Vice President John R. Rackley presiding.

Mr. Rackley asked Grace M. Henderson, Dean of the College of Home Economics, to introduce Mrs. Margaret Smith, Lecturer in Home Management, Glasgow and West of Scotland College of Domestic Science, Glasgow, Scotland.

The minutes of the December 3, 1963 meeting were approved as printed in the Faculty Bulletin for December 13, 1963. One hundred forty-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: J. R. Bloom (F. A. Wood), W. I. Ferrara (R. E. Malcolm), E. L. Keller (T. S. Goas), Ossian MacKenzie (W. M. Hensch), H. J. Poorbaugh (J. W. Bergstrom), W. H. Powers (J. S. Cook), E. R. Queer (E. A. Joy), H. A. Weedon (T. D. Larson), and H. D. Wright (C. P. Thornton).

A letter was read from J. D. Ridge, Chairman of the Senate Committee on Commit-

tees, stating that the President had approved the appointment of H. L. Krall to serve the balance of the 1963-1964 term of R. G. Cunningham on the Senate Committee on Continuing Education Policy instead of P. S. Skell who was unable to accept the appointment.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He asked that the following amendment be added to the report:

Under Item 1 add 3. Proposals circulated under date of November 27, 1963: Nos. 116, 120-129, and 135-137.

Mr. Shelley stated that these items covered the proposed Associate Degree Curriculum in Agricultural Technology. Mr. Rackley asked if there were any objections to considering 1A3; hearing none he ruled that 1A3 could be considered. Mr. Shelley moved approval of the proposals Items 1A, as amended, and 1B. The motion was seconded and passed. The complete report is on file in the office of the secretary.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

The next regular meeting of the Senate will be on February 4, 1964; the agenda will be distributed on January 21, 1964.

The meeting adjourned at 4:12 p.m.

Robert G. Benreuter
Secretary

PERSONNEL MATTERS



Froke in charge

Marlowe D. Froke, associate professor of journalism, will be responsible for educational broadcasting activities in his new position as director of broadcasting.

He will direct the broadcast activities of the proposed educational television station, application for which is awaiting action by the F.C.C.

Educational activities now conducted through closed-circuit network will continue to be part of the Division of Instructional Services.

GEORGE J. WURFL, professor emeritus of German since 1945 and a member of the faculty for 19 years before retirement, died Friday, Jan. 17, at Evanston, Ill., at the age of 87. Born in Germany, he taught there before coming to the U.S. in 1913, teaching in academies in Connecticut and New York before coming to Penn State. He taught practically all of the courses offered by the department of German at one time or another. Many faculty members will remember him for the German songs he initiated in 1930 in celebration of Christmas, a program which is still popular.

DR. JAMES F. KERFOOT, elementary school teacher of Mahtomedi, Minn., has been appointed assistant professor of educational psychology from the University of Minnesota and was a member of the staff there from 1958 to 1962.

MRS. OVERDA PAGE, first flutist of the Springfield, Ohio, Symphony Orchestra and wife of Raymond Page, violist of the Alard Quartet, has been appointed instructor in music, to teach flute and piano.

JOSEPH E. BRUNO, structural engineer for the Pennsylvania Bureau of Engineering and Construction, has been appointed instructor in architectural engineering. He is a graduate of Catholic University, Washington, D. C., in civil engineering and holds a State professional engineer's license.

RICHARD R. KLOTZ, assistant director of admissions at Bucknell University from 1962 until this month has been appointed assistant to the dean of admissions, to be responsible for admissions of non-Penn State degree students for the Summer Term, to work on admission of freshmen and special students, and to interview applicants, parents, and school guidance officers.

WESLEY P. WINTER, associate professor of industrial engineering, will be on leave from April 1 to Aug. 31 to be associated with the Gray Iron Founders' Society, Cleveland, in several capacities.

DR. ALFRED O. SCHMIDT, professor of industrial engineering, began a leave Jan. 16 to accept an assignment for the U. S. Agency for International Development, serving as visiting professor in machine tool technology in India and other points in the Orient. The leave extends to June 30.

ARTS —

(Continued from page one)

Arroyo, as the boy, and Charles Bressler as Master Peter.

Opening the program will be Handel's "Concerto in G Minor," for oboe and strings with Melvin Kaplan as soloist, followed by Bach's Cantata 55, with Bressler as vocal soloist, John Solum as solo flutist, and Kaplan as oboist.

Mr. Fiorito will sing the baritone role of Francis Poulenc's "Le Bal Masque," a cantata set on poems by Max Jacob. Miss Arroyo will sing in Igor Stravinsky's "Pastorale for Soprano and Woodwinds."

pavilion theatre

"Dinny and the Witches," a fantasy by William Gibson, will run at Pavilion Theatre Feb. 4-8. Tickets are available at the box office (open 10 a.m. to 6 p.m.) and may be reserved by calling 865-6309. Contrary to the impression the play's title might give, "Dinny" is not a children's story. Gibson is author also of "Two for the See-Saw" and "The Miracle Worker."

student exhibit

Student-designed package projects, by students in Art 19, are on exhibit in Room 105, Temporary Building,

and will remain until Jan. 28. The packages were designed for wearing apparel, sporting goods, hardware, and other products. Students in Art 18, graphic design class, prepared the exhibit.

page recital

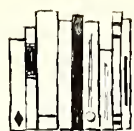
Overda Page, flutist, instructor in music, will give a concert Sunday, Jan. 26 at 3 p.m. in Schwab Auditorium, assisted by Nan Gullo, harpist, Ned Corman, clarinetist, and Raymond Page, violist.

Mrs. Page will play Bach's sonata for unaccompanied flute; Jolivet's sonata for flute and clarinet, with Mr. Corman; Stravinsky's epitaphium for flute, clarinet, and harp; Perichetti's serenade No. 10 for flute and harp; and Debussy's sonata for flute, viola, and harp.

composer

A. Gordon Wilcox, assistant professor of English at Behrend Campus, is composer of "Ricercar and Fugue," which was premiered by the Erie Philharmonic Orchestra in concerts Jan. 14 and 15. The music is a classical form but in a contemporary style. Several years ago, Wilcox composed a chorale which received its first public performance at the Dallas, Texas, Composers Conference.

BOOKS



Dr. Donald W. Bleznick, associate professor in the department of Spanish, Italian, and Portuguese, is editor of "El Ensayo Espanol del Siglo Veinte," published by Ronald Press this month.

A dual-purpose textbook, it is a collection of 21 essays by ten of Spain's outstanding writers of the 20th century and is intended for Spanish courses where students have completed the study of basic grammar. It is also useful as a reader for courses in Spanish civilization and literature given in language departments.

In addition to the essays themselves, the book contains an introduction which traces the Spanish essay from the 16th century origin, biographical sketches of each author, and various teaching aids, including a complete end vocabulary.

Among the essayists included are Miguel de Unamuno, Ramon Menendez Pidal, Jose Ortega y Gasset, and Azorin.

Dr. Bleznick became a member of the faculty in 1955 after six years at Ohio State University. He is the author of many articles and of about 50 book reviews. He has another book in preparation expected to be released this year.

* * *

Three associate professors of plant pathology—**Drs. H. B. Couch, J. R. Bloom, and James Tammen**—are authors of a textbook for introductory plant pathology courses which will be published by Reinhold Publishing Co., September, 1964.

The approach used in the text is new, treating plant disease as a dynamic biological process and exploring the topic of "disease" rather than "diseases of" or "diseases caused by". Disease is first described in its entirety, then the stages of development are studied in progression. The final step is to study the various concepts of control. The usual approach is to treat the subject through a series of "type diseases," grouped either according to the incitant or the crop.

Courses in introductory plant pathology are usually dependent on the textbook for organization but in several universities they are taught as the new book is oriented.

All three authors joined the faculty as assistant professors, Tammen in 1956, Couch in 1954, and Bloom in 1953.

Paul West, associate professor of English, is editor of a collection of critical essays on George Gordon, Lord Byron as part of the Prentice-Hall series, edited by Maynard Mack, of Yale University, aimed at presenting critical opinion on major authors in a 20th-century perspective.

Criticisms by the following are used in the books, which also contains an introduction by West: G. Wilson Knight, Bernard Blackstone, Mario Praz, Guy Stellan, F. R. Leavis, W. W. Robson, Helen Gardner, George M. Ridenour, Edmund Wilson, Gilbert Highet, Bertrand Russell, and John Wain.

Also included is West's own essay, "The Plays," which is from his book, "Byron and the Spoiler's Art," (St. Martin's Press, 1960.)

West came to the University in 1962 as visiting associate professor of English after serving as a Guggenheim fellow. He came from Memorial University of Newfoundland, Canada, and is a graduate of the University of Birmingham, England, and received the master of arts degree in comparative literature from Columbia University.

* * *

Dr. Howard O. Triebold, head of the department of biochemistry, is co-author with Dr. L. W. Aurand of the University of North Carolina of "Food Composition and Analysis," published by Van Nostrand.

The textbook combines lecture material and laboratory experiments involving the major classes of foodstuffs and food additives to help food technologists develop a background as it relates to the food industry. It is also intended as a reference for those in research and technical work in the food industry.

Included in the book are the chemistry of representative classes of foodstuffs in respect to composition, effects of processing on composition, food deterioration, food preservations, additives; and quantitative analysis of common food constituents, including newer physicochemical methods.

Dr. Triebold has been a member of the faculty since 1926, was appointed acting head of the department in 1951 and head in 1953. He received all three degrees from the University of Minnesota. He is the author of an earlier Van Nostrand book on analysis of agricultural and food products.

The co-author, Dr. Aurand, received bachelor's and doctor's degrees from Penn State, the latter in 1949.

CALENDAR



Friday, Jan. 24

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. John L. Lumley, professor of aeronautical engineering, with his film, "Deformation of Continuous Media."

College of Agriculture Faculty Meeting, 3:55 p.m., Room 109 Amshy.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Edo T. Baghoom, Harvard University, on "Earliest Evidences of Life."

Interlandia Folk Dances, 7:30 p.m., Room 302 Engineering "A".

Artists Series program by "The Festival Associates," 8:30 p.m., Schwab Auditorium.

Saturday, Jan. 25

Talk by Dr. David Freedman, professor of Hebrew and Old Testament Literature, Pittsburgh Theological Seminary, on "New Accents in Archaeology and Biblical Studies," at 8 p.m., in Room 123 Chambers, sponsored by Faculty Committee of U.C.A.

Athletics: basketball, vs. Lehigh, 8 p.m., Rec Hall.

Sunday, Jan. 26

Concert by Oveida Page, instructor in music and flutist, 3 p.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. David Freedman, Pittsburgh Theological Seminar, on "Naboth's Vineyard."

Monday, Jan. 27

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. John L. George, associate professor of wildlife management, on "Insecticides and Wildlife."

Engineering Mechanics Seminar, 3:30 p.m., Room 103 Hammond. Dr. Norman Davids, on "My Work in Boeing Co. Summer Program."

Tuesday, Jan. 28

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. J. L. Brown, Ordnance Research Laboratory, on "Information Theory."

Thursday, Jan. 30

College of Education faculty meeting, 2:20 p.m., Room 101 Chambers.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. G. M. Rosenblatt, on "Some Aspects of High Temperature Chemistry."

Artists Series program by baritone George Souzay, 8:30 p.m., Schwab Auditorium.

Friday, Jan. 31

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

FIRST AID

Departments and offices concerned with first aid kits are urged to inspect the kits now in preparation for ordering supplies for the kits Feb. 1. The Ritenour Health Center provides these supplies, free, but since the supplies are ordered only twice a year, departments are asked to place their individual orders Feb. 1 and Aug. 1. A requisition form for ordering from the Health Center will be sent if a call is made to the office, 865-6558.

Fine selected

Dr. Nathan Fine, professor of mathematics, will visit seven colleges and universities during the Winter and Spring Terms as a visiting lecturer of the Mathematical Association of America.

The schools include Virginia Polytechnic Institute, Roanoke College, University of Richmond, Washington College, Villanova University, Bucknell, and Juniata.

The program has four aims: to strengthen the programs of colleges, provide the staffs and major students with an opportunity for personal contacts with productive and creative mathematicians, aid in motivating able students to consider careers in mathematics and teaching, and create and strengthen ties between undergraduate colleges and graduate schools.

Dr. Fine joined the faculty last fall after serving at the University of Pennsylvania since 1947. He has also taught in public schools and at Cornell and Purdue Universities. He has held research fellowships from NSF and Guggenheim Foundation and has been a member of the Institute for Advanced Study.

Sams named

Dr. Henry W. Sams, head of the department of English, has been appointed chairman of a special committee to survey and evaluate all English examinations of the College Entrance Examination Board. The committee, composed of 16 school and college faculty members from throughout the U. S., will examine CEEB tests in English composition, writing, advanced placement, and the verbal section of the S. A. T.

Ag Technology



A new two-year program in agricultural technology is discussed by Robert E. Eiche, left, director of the Altoona Campus, and Dr. Jerome K. Pasto, associate director for resident education of the College of Agriculture. The new curriculum will be initiated with the Fall Term, with students attending the Altoona Campus the first year and completing the program at University Park. The program leads to an associate degree and is aimed at preparing students for service not only in commercial farming but in areas of agricultural business organization, management, and sales.

NSF —

(Continued from page one)
ances to the institutions to help defray the costs of educating the students and to strengthen engineering and related programs.

About \$6 million will be made available by NSF, providing for about 1,200 students. The Foundation will place emphasis this year on institutions which can accommodate additional first-year graduate students on a full-time basis.

ACS MEETING

Dr. Leo Sommer, professor of chemistry, will address the 291st meeting of the Central Pennsylvania Section of the American Chemical Society Wednesday, Jan. 29, at 8 p.m. in Room 112 Buckhout. He will speak on "Stereochemistry of Asymmetric Silicon."

RECITAL

Dr. Leonard Raver, Chapel organist, will give a dedication recital for the new organ at King's Chapel, Boston, Mass., Sunday, Feb. 2. The program will include the first performance of a new composition for organ and brass quartet by Daniel Pinkham, written for the occasion. Pinkham is organist and director of music at King's Chapel.

SCRANTON

The fund-raising campaign seeking to obtain \$300,000 for construction at the Scranton Campus was kicked off last Friday and received pledges of support of the family of Gov. Scranton and of the Scranton Central Labor Union, represented by its president, Philip F. Brady. Gov. Scranton said he and his three sisters plan to give \$30,000 toward the campaign. The 127 students now enrolled have pledged nearly \$1,200 in support of the campaign. The G.S.A. has authorized \$631,561 to aid on construction of a classroom-laboratory building on the new campus.

BULL TALKS

State Secretary of Agriculture, Leland H. Bull, will address the annual Pennsylvania vegetable growers and cannery fieldmen meeting which runs Jan. 27-29. He will speak on the role his department plays in the horticulture industry, Tuesday, Jan. 28.

FLC MEETING

The Faculty Luncheon Club will hear Dr. John L. George, associate professor of wildlife management, speaking on "Insecticides and Wildlife," at its regular meeting Monday, Jan. 27, at 12:30 p.m. in HUB cafeteria dining room "A".

faculty BULLETIN

Vol. 51, No. 27 Jan. 24, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Mossbauer lecture

Young Nobel prizewinner Dr. Rudolf L. Mossbauer, now guest professor of physics at the California Institute of Technology, will lecture today (Friday) and tomorrow as guest of the department of physics, the Materials Research Laboratory, and the College of Mineral Industries.

In a public lecture today at 4 p.m. in the Mineral Industries Auditorium, he will speak on "Electronic Shielding of Rare Earth Salts."

Dr. Mossbauer's fundamental discoveries have had far-reaching effects in scientific areas, ranging from solid state physics to general relativity. He was co-winner of the 1961 Nobel prize for physics for his discovery of the "Mossbauer Effect."

Credit union

Dr. Ernest L. Bergman, associate professor of plant nutrition, was elected president of the University Park Federal Credit Union, which enrolls only University employees, at the Union's meeting Jan. 21.

Elected to the Board in addition to Bergman were Laurence Marriott and James Vitale, for two-year terms, and Richard Spencer, for one year.

The Credit Union declared a dividend of 4.25 per cent on all full shares for the year ending Dec. 31, 1963, a rate which is .25 per cent higher than last year.

Membership in the Credit Union has increased to 451 and savings in shares total \$69,895.69. Assets now total \$84,984.49.

Counselor program

Penn State is one of 25 universities and colleges throughout the nation which will conduct a National Defense Counseling and Guidance Training Institute in the next academic year.

A. M. Wellington, professor of counseling education who is Institute Director, says that all work here will be at the graduate level in courses available only to 30 competitively-selected enrollees. The U. S. Office of Education has granted \$84,200 to provide each student with a weekly stipend of \$75 plus \$15 for each dependent and to staff the program.

The Institutes are to be full-time programs of high professional quality for secondary school employees preparing to become school counselors and are individually designed by their directors to improve counselors' qualifications for and proficiency in identification and counseling of able secondary school students.

Wellington explains that the program here will have a particular focus on counselor-counselee interrelationships and will use the Counselor Education Center's direct-wire television system to enable students to benefit from observations of actual counseling done under staff supervision. Faculty members in sociology, history, economics, speech, psychology, and educational psychology will be used to supplement counselor training.

COMMENCEMENT

Winter Term commencement exercises will be held Sunday, March 22 at 2 p.m. in Recreation Building. Spring Term exercises will be held in Beaver Stadium Sunday, June 14, at 2 p.m. Because of construction work at Recreation Building, no exercises will be held there in case of inclement weather on that day.

FLC MEETING

Dr. Milton S. Osborne, professor emeritus of architecture, will speak on "Architectural Impressions from Asia," at the weekly meeting of the Faculty Luncheon Club, Monday, Feb. 3, at 12:30 p.m. in HUB dining room "A". All members of the faculty are invited.

SENATE

The regular meeting of the Senate scheduled for Feb. 4 has been canceled. The next meeting will be held March 3, the agenda for which will be distributed Feb. 18.

FIREWOOD

Good dry fireplace wood is now available from the School of Forestry and may be ordered by calling 865-4237.

ISRAEL WRITER

Igal Mossinsohn, Israel's leading playwright and author, will speak on "Life—As Reflected in Current Israeli Literature," at Hillel Foundation at Friday night services tonight at 8 p.m. in the Foundation auditorium.

New Kensington

Basic freshman courses for four-year curriculum students will be added to the offerings at New Kensington Center this fall, supplementing the existing associate degree and evening-class programs now provided.

Enrollment is expected to double as a result and six new faculty members will be added.

Freshman programs applicable to business administration, education, home economics, agriculture, and liberal arts will be given. Science programs will not be offered until adequate facilities are available.

An enrollment of 1,000 is expected at New Kensington by 1970 and planning of classroom, laboratory, and office buildings to be located on the new 35-acre campus is now underway as a result of a G.S.A. grant of \$38,941. A fund-raising campaign will get underway this year in a six-county area to provide funds for the building program.

Bingham series

The University will be host for the annual Walter Van Dyke Bingham Memorial Lecture in the field of applied psychology which will be given this year by the noted Dr. Norman H. Mackworth, British psychologist, currently at Harvard University.

He will give the lecture Wednesday, May 27, at 8 p.m. in Room 121 Sparks.

The lecture series is sponsored by the American Psychological Association, in memory of the eminent pioneer in industrial psychology "to honor those psychologists and those institutions which have made outstanding contributions to research on the identification and stimulation of exceptionally promising young people."

Theology talk

Dr. John Dillenberger, dean of graduate studies and professor of historical theology at San Francisco Theological Seminary, will talk on "New Accents in Theology and History" tomorrow (Saturday) at 8 p.m. in Room 123 Chambers. The lecture and discussion to follow are part of the Saturday Lectures program sponsored by the Faculty Committee of the University Christian Association.

A graduate of Union Theological Seminary, Dr. Dillenberger served as a chaplain in the U.S. Navy, 1943-46 and has taught at Princeton, Columbia, Harvard, and Drew universities. He is chairman of Oxford University Press "Library of Protestant Thought" and is author of several books, including "Protestant Thought and Natural Science" and "Protestant Christianity."

PERSONNEL MATTERS



Mary C. Whitlock, formerly head of textiles and clothing department at the University of Rhode Island, is serving as visiting professor of clothing and textiles for the Winter Term, principally to teach the course on contemporary uses and roles of clothing and textiles as affected by economic, social, and psychological forces, and to teach a graduate course on the evaluation of clothing and textile research. She has taught at the University of Illinois and at Michigan State University and was in charge of research in clothing construction in the U. S. Bureau of Human Nutrition and Home Economics at Beltsville, Md., for five years.

William J. McHale has been appointed chairman of the division of family housing and home art in the College of Home Economics, effective Feb. 1. He has been extension specialist in home related art since 1962. A graduate of Kutztown State College, he was granted both master's and doctor's degrees in art education by Penn State.

Dr. John H. Patterson, former member of the physics department at the University of London's Birkbeck College, has been appointed visiting scientist in the Materials Research Laboratory, for the Spring Term. He will be associated principally with Dr. G. W. Brindley, head of the department of ceramic technology. He obtained his degrees from the University of Adelaide, Australia, and has conducted research for the Colonial Sugar Refining Co. Research Laboratory in Sydney.

Dr. Abbas Asgharian, assistant professor at Pahlvi University, Iran, has been appointed research associate in physics. He was graduated from the Technical Institute of Abadon, Iran, and received the doctor of philosophy degree in physics from the University of Texas.

Dr. John E. Baylor, associate professor of agronomy extension, is at Sao Paulo, Brazil, working with the Brazilian government in planning for the Ninth International Grasslands Congress to be held there later this year. He is on leave until March 20.

Dr. Paul L. Michael, associate professor of engineering research at the Ordnance Research Laboratory, is conducting research for the Institute of Gas Technology while on leave until June 30.

Conference Call System

A telephone system has been installed in Room 5, Carnegie, which enables an instructor and his class to conduct a telephone interview by long-distance conference telephone call with persons located in any part of the country. Faculty members wishing to schedule the room and use these facilities should call Mrs. Margaret Roberts, 211 Carnegie, 865-6597.

The system has been installed on an experimental basis for the Winter and Spring Terms so that the services of outstanding resource persons who are not in a position to visit the campus may be made available to a class.

Charges for calls are modest; a 45-minute conference call interview with a person in New York City costs about \$10.

Avoiding parking fines

Do you drive and park on campus? If so, you should be interested in the best ways to avoid getting tickets from the Campus Patrol. They can be summed up in three very brief statements, developed by the Campus Patrol and the Faculty-Staff Parking Review Committee:

1. Read the traffic and parking regulations which are given to each faculty and staff member when he gets a parking decal, then heed the regulations.

2. If you are in trouble—can't find a parking space or must leave your car in an unauthorized space, area or roadway for one of a number of good reasons—phone the Campus Patrol immediately to advise or to get help.

3. If you anticipate the need for your car—as for example in transporting books, etc.—in ways that are outside the regulations, inform your College or department parking chairman or the campus patrol beforehand and an attempt will be made to aid you.

Basically the need for the regulations in existence is the undeniable and observable fact that there are more cars among faculty, staff, and students, than there are roadways and parking areas to handle them. Only through some restrictions can the present problems be solved, says the chairman of the Review Committee, E. M. Sykes, professor of physical education.

By far the most common violation among faculty and staff members, says Campus

Patrol, is parking in the wrong area or in areas which are not specified for parking, such as roadways and loading zones. Of the 472 traffic violation notices given by Campus Patrol from last September until Jan. 23, 263 were for parking in the wrong area. Other frequently-noted violations were: void decals used (63), no permit or sticker (46), parking during the period 2 a.m. to 6 a.m. in areas where prohibited (42), and parking in "no parking" zones (30).

Both Campus Patrol and the Review Committee recognize that circumstances exist when a violation can hardly be avoided. Seldom, however, does a valid excuse exist for not informing the Campus Patrol immediately of the situation.

"Once the Campus Patrol has processed the ticket," explains Chief John Galaida, "the matter is out of its hands, because by University regulation, appeals from a citation can be handled only by the Review Committee."

The total of violations issued last year (July '62 to July '63) was 1487. Some of these were appealed and the appeal upheld. Both Campus Patrol and the Review Committee hope that a reduction in such cases can be effected, because they represent much time and effort on the part of everyone, including the appellant, who must appear in person before the Committee.

Following the three basic suggestions made earlier will solve the problem, the Committee advises.

ITEMS OF INTEREST



HONORED

WILLIAMSON, M. A., Engineering, presented with a plaque in recognition of seven years of service as secretary-treasurer to the National Conference on the Administration of Research.

ELECTED AND APPOINTMENT

ANDERSON, P. M., and BARLETT, H. D., agricultural engineering, elected respectively vice president and secretary-treasurer of the Pennsylvania section of American Society of Agricultural Engineers.

HOWELL, B. F., JR., geophysics, and JAHNS, R. H., Mineral Industries, appointed to the Advisory Board and Steering Committee of the "ESCP Newsletter" publication

of the Earth Science Curriculum Project of the American Geological Institute.

NELSON, G. K., accounting, appointed to the Committee on International Accounting of the American Accounting Association.

SCHRADER, W. J., accounting, appointed to the Concepts and Standards Research Study Committee of the American Accounting Association.

SCHUMAN, E. C., engineering research, re-appointed to represent the A.S.T.M. on the Technical Planning Committee of the Engineers Joint Council for 1964.

SOMMER, L. H., chemistry, appointed to the advisory board of Advances in Chemistry series, official publication of the American Chemical Society.

SOUTHWORTH, H. M., agricultural economics, elected vice president of the American Farm Economics Association.

SMITH, THOMAS, entomology, elected secretary of the section on Insect Physiology

(Continued on page four)

CALENDAR



Friday, Jan. 31

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Hillel Foundation Friday night Service, 8 p.m. Igal Mossinsohn, Israeli playwright, on "Life—As Reflected in Current Israeli Literature."

Mineral Industries Colloquium, 3:15 p.m., M.I. Auditorium.

Saturday, Feb. 1

Lecture by Dr. John Dillenberger, San Francisco Theological Seminary, on "New Accents in Theology and History," 8 p.m., Room 123 Chambers.

University Symphony Orchestra program, 8 p.m., Schwab Auditorium, with guest artists, Leonard Feldman, Joanne Zagst, and Alan Mandel.

Varsity athletics: gymnastics, vs. Navy, 3 p.m.; wrestling, vs. Army, 8 p.m.

Sunday, Feb. 2

Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. John Dillenberger, San Francisco Theological Seminary, on "Spirit and the Depth of God and Man."

Monday, Feb. 3

Faculty Luncheon Club, 12:30 p.m., HUB

dining room "A". Dr. Milton S. Osborne, professor emeritus of architecture, on "Architectural Impressions from Asia."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. P. S. Theocaris, on "The Elastic-Plastic Stress Distribution in Plane-Stress Fields."

Tuesday, Feb. 4

Opening night of Pavilion Theatre production of "Dimmy and the Witches," 8 p.m. (continues to Saturday).

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A". Dr. Erwin Feller, on "Innovations and Economic Analysis."

Wednesday, Feb. 5

Basketball, vs. Bucknell, 8 p.m., Rec Hall

Thursday, Feb. 6

Chemistry Colloquium, 12:30 p.m., Room 310 Whitmore. Dr. Nicholas Matwiyoff, on "Trends in the Chemistry of Group IV-B Elements."

Friday, Feb. 7

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Artists Series program by Luigi Pirandello: "Six Characters in Search of an Author," 8:30 p.m., Schwab Auditorium.

Mineral Industries Colloquium, 3:15 p.m., Mineral Industries Auditorium. Dr. David Rankin, University of Victoria, on "Magnetotelluric Effect."



Bishop Connare

Brotherhood

The Most Reverend William Connare, Bishop of the Greensburg Diocese of the Roman Catholic Church, who will be the speaker for the 11th annual Brotherhood Banquet, Feb. 11, is a native of Pittsburgh and has had an active role in human rights programs in the Pittsburgh area for more than a decade.

Ordained a priest in 1936, Bishop Connare served parishes in Pittsburgh until 1960 as assistant pastor, administrator, or pastor and had diocesan assignments including serving as chaplain for the Catholic Interracial Council of Pittsburgh, which he helped to organize, from 1953 to 1960.

From 1953 to 1960 he was a member of the Commission on Human Relations of Pittsburgh and a member of the Allegheny County Council of Civil Rights. He was a board member of the ACCCR from 1958 to 1960 and a board member of the Pittsburgh Branch of the National Association for the Advancement of Colored People, 1959-60. He was on the board of the Robena Mine Disaster Fund in 1962.

In March 1960 he was named Second Bishop of the Diocese of Greensburg, by Pope John XXIII and in May was consecrated Bishop of Greensburg.

A graduate of Duquesne University in 1932, he received the master of arts degree in 1934 from St. Vincent Seminary, Latrobe. He has been given honorary doctor's degrees by Seton Hill College, Duquesne University, and St. Vincent and St. Francis Colleges.

Tickets for the Brotherhood Banquet are on sale at the HUB desk and the Chapel. They may be reserved by calling 865-6540.

GRANTS



A. H. Federaro, nuclear engineering, \$150, U. S. Army Edgewood Arsenal, additional funds for copies of final report on studies of shielding characteristics of structures for simulated residual radiation.

Rustum Roy, Materials Research Laboratory, \$30,500, U. S. Office of Naval Research, for research on crystal chemistry at elevated pressure and moderate temperatures.

H. B. Palmer, fuel technology, \$11,072, U. S. Army Research Office, for studies of chemical dissociation and recombination processes in shock waves.

K. R. Davenport, mechanical engineering, \$19,281, Penna. Department of Highways, for study of pavement roughness and serviceability.

J. C. Johnson, Ordnance Research Laboratory, \$4,252,157, U. S. Bureau of Naval Weapons, for operations of the Laboratory.

J. M. Shemick, education, \$3,776, U. S. Office of Education, for research on teaching manipulative skills via programmed instruction.

E. R. Queer, Engineering, \$100,000, from the Individual Trustees of The Alcoa Foundation, for establishment of an Institute for Building Research.

M. R. Fenske, chemical engineering, \$1,500, Pennsylvania Refining Co., as grant to aid the Petroleum Refining Laboratory.

E. R. Buskirk, Human Performance Research Laboratory, \$50,390, U. S. Public Health Service, for research on obesity and physiologic response to environment.

R. A. Campbell, vocational education, \$138,818, U. S. Office of Education, for study of effects of field and job oriented technical retraining on manpower utilization of the unemployed.

W. A. Lloyd, chemical engineering \$10,037, Atomic Energy Commission, for research on fission fragment irradiation of hydrocarbon and hydrocarbon-oxygen mixtures.

A. H. Waynick, electrical engineering \$1,500, Bendix Corp., for research in electrical engineering.

Thomas Wartik, chemistry, \$2,225, E. I. du Pont de Nemours & Co., for postgraduate teaching assistant award in chemistry.

Thomas Wartik, chemistry, \$10,000, same donor, for support of fundamental research in chemistry.

M. R. Fenske, chemical engineering, \$5,000, same donor, for fundamental research in chemical engineering.

Joseph Marin, engineering mechanics, \$2,500, and **R. G. Cunningham**, mechanical engineering, \$2,500, same donor, for research in mechanical engineering.

W. H. Powers, Science, \$99,800, National Science Foundation, for summer institute in the biological and physical sciences for secondary school teachers of biology, chemistry, physics, and earth sciences.

T. C. Benton, mathematics, \$36,800, National Science Foundation, for summer institute in mathematics for secondary school teachers.

C. D. Stahl, petroleum and natural gas, \$5,000, Penna. Grade Crude Oil Assoc., for renewal of fellowship in petroleum and natural gas.

F. R. Matson, Liberal Arts, \$100, Central Penna. chapter, A.I.A., for archaeological work in the Near East.

THE ARTS



symphony concert

Theodore Karhan will direct the University Symphony Orchestra's first concert tomorrow (Saturday) at 8 p.m. in Schwab Auditorium, with Alan Mandel, Leonard Feldman, and Joanne Zagst as guest artists.

The program will open with Handel's overture to the opera, "Theodora" and follow with Tchaikovsky's variations on a rococo theme, with Feldman as cellist.

Feldman, Miss Zagst as violinist, and Mandel as pianist will play Beethoven's Triple Concerto.

The concert will conclude with the Silbelius "Karelia Suite."

mandel recital

Alan R. Mandel will present a lecture-recital Monday, Feb. 10, at 8:30 p.m. in Schwab Auditorium. The program will feature music of the last years of Franz Liszt.

gordon concert

Samuel Gordon, tenor, visiting lecturer in music, will sing in recital Sunday, Feb. 9, at 3 p.m. in Schwab Auditorium, with Dr. Leonard Raver, organist, the Alard Quartet, Marcia Scholten, pianist, Ned Corman, oboeist, and Ann Walker, flutist.

student art

Seventeen graduate students in Art Education will exhibit paintings, prints, sculpture, ceramics, and jewelry in Chambers Building gallery starting Sunday and continuing until Feb. 25. Many of the articles will be available for purchase.

pavilion theatre

The William Gibson play, "Dinny and the Witches," opening Tuesday, Feb. 4 at Pavilion Theatre, is considered unique theatre due to a combination of ironic humor and serious comment on contemporary life.

Ellis Grove directs the play which was an off-Broadway production of a couple years ago. Choreography is by G. John Place, music direction by Prudence della Cioppa, and scene design by William Allison.

The play concerns Dinny Jones, a jazz man in a Central Park area bar who meets three witches, modern variety, in a journey through life. When Dinny assumes the witches' powers, the world turns upside down.

Tickets may be obtained by calling 865-6309, 10 a.m. through 6 p.m. until the play starts Tuesday, when the box office will remain open until 10 p.m. The run concludes Saturday, Feb. 8.

pirandello

"Six Characters in Search of an Author" won the Nobel prize for author Luigi Pirandello. The dramatic masterpiece will be presented by the Circle in the Square Co. on the Artists Series Friday, Feb. 7, and Saturday, Feb. 8, at 8:30 p.m. in Schwab Auditorium.

Tickets will go on sale to non-students Wednesday, Feb. 5, at 9 a.m. at the HUB desk.

The Theodore Mann-Claude Giroux revival of Pirandello's play drew high praise in New York. The play is concerned with psychological and ethical concepts and the tragic enigma of human existence. It was first produced in this country in 1922.

ITEMS —

(Continued from page two)

- and Toxicology, Entomological Society of America.
- JEST, A. F., clothing and textiles, appointed to the Technical Committee of the National Retail Merchants Association.
- TRIEBOLD, H. O., JR., safety, appointed chairman of the Off-The-Job Committee of the Public Employee Section of the National Safety Council.

THE ARTS

- CAMPBELL, W. P., music education, guest conductor, Eastern District Chorus, Penna. Music Educators Association meeting Jan. 16-18; also guest conductor, Lancaster County Church Choir Festival, Feb. 9.
- FRAENKEL, R. D., art, a painting "Joyous Season," accepted for the 159th annual exhibition of American oil painting and sculpture at the Penna. Academy of Fine Arts, Philadelphia.
- RAVER, LEONARD, music, dedication recital of new organ at King's Chapel, Boston, Mass., Feb. 2.

LECTURES AND TALKS

- BRUBAKER, R. S., speech, "Machine Computer Recognition of Speech Sounds," before the Central Pennsylvania Chapter, Acoustical Society of America.
- HEILMAN, A. W., Reading Center, "The Mandated Junior High School Program — a Re-examination," at Lehigh University, Jan. 25.
- LEIBOWITZ, H. W., psychology, "The Experimental Basis for Perceptual Theory," before members of the division of psychological services of the Montgomery County (Md.) Public Schools.
- McKINLEY, D. H., Business Administration, "Business Forecasts for 1964," before the Purchasing Agents Association of Reading, Pa.; "Coming Events in Business," before the Scranton, Pa., Kiwanis Club; and on "Corporate Profits," before the members of the Credit Association of Western Pennsylvania.
- TAYLOR, C. G., hotel and institution administration, "Automation in Food Production and Processing," at a meeting of the Greater New York Dietetic Association.

faculty BULLETIN

Vol. 51, No. 28 Jan. 31, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

THE ARTS



concerts

Alan Mandel's piano concert Monday, Feb. 10, will be given at 8:30 p.m. in the HUB assembly room (instead of in Schwab Auditorium as previously announced). The all-Liszt program will include three works from Hungarian sources; four in the Impressionism and Russian influence; and three on the theme of Death and Mephisto. The compositions are from the 1873 to 1886 period.

The vocal recital by Samuel Gordon, tenor, originally scheduled for Sunday, Feb. 9, has been rescheduled for Wednesday, Feb. 19, at 8:30 p.m. in Schwab Auditorium. He will be assisted by the Alard Quartet, Marcia Scholten, pianist, Ned Corman, oboist, and Ann Walker, flutist.

pavilion theatre

William Gibson's "Dinny and the Witches" will conclude its five-day run at Pavilion Theatre this evening and Saturday. Curtain time is at 8 p.m. Some tickets remained at the ticket office early this week.

art exhibits

Paintings by Enrique Montenegro, assistant professor of art, will remain on exhibit through March 1 at the HUB gallery. He has exhibited widely throughout the U.S. and his work is in the permanent collections of the Museum of Modern Art in New York. (Continued on page two)

Budget request

President Walker Wednesday presented the University's budget request to the joint House-Senate Appropriations Committee of the State Legislature and Saturday morning will appear before the State Council of Higher Education for a similar presentation.

His request for the 1964-65 fiscal year calls for an appropriation of \$30,304,000, compared to an appropriation of \$25,090,000 made for the current fiscal year.

The request enumerated the specific budget items in the following way:

<i>To continue present program</i>	\$23,916,000
<i>To raise faculty salaries</i>	3,000,000
<i>To admit 1000 more students</i>	1,224,000
<i>Net addition to University's share of Social Security</i>	50,000
<i>To expand research</i>	1,000,000
<i>To supplement student fees at Graduate Centers</i>	200,000
<i>To equip G.S.A. buildings</i>	914,000

The President said in his presentation that the University proposes to establish four or five resident Graduate Centers in the major industrial areas of the Commonwealth. He also urged additional money for research essential to the development of the human and physical resources of the Commonwealth, including basic research on water and air pollution, land and water utilization in economically depressed areas; building research; research on solid state materials, petroleum, coal, poultry and beef cattle; health and medical sciences; social sciences and the humanities; and educational research important to the public schools as well as to higher education.

BROTHERHOOD

The 11th annual Brotherhood Banquet will be held Tuesday, Feb. 11, at 6 p.m. in the HUB ballroom. The Most Reverend William Connare, Bishop of the Diocese of Greensburg, will speak on "Who Is My Brother?" and Lawrence J. Perez, assistant dean of the College of Engineering, will be the toastmaster. Interlandia Folk Dancers will entertain.

FOLKWAYS

A folklife magazine edited by a senior student majoring in journalism, John Burrison, has been published. Featured are snuff, ballads, numbskull tales, and cartoons, in an attempt to bridge the gap between popular and scholarly folklore material. Samuel P. Bayard, professor of English, and Albert W. Buflington, professor of German, are among the contributors.

Study abroad

More than 110 students will be enrolled in the Study Abroad Program during the Spring Term, chosen from among 400 applicants.

They will study at the University of Strasbourg, France (10); University of Cologne, Germany (20); University of Salamanca, Spain (31); and Architectural Association School of Architecture, London (20).

Three students have also been accepted by the Slade School of Fine Arts, in London, the first to be enrolled at the school under a new arrangement with the University.

Faculty members who will serve as advisors for the students will be Richard C. Maloney, associate dean of the College of the Liberal Arts, at Strasbourg; Vaclav Mares, professor of economics, at Cologne; Peirce F. Lewis, professor of geography, at Salamanca; and Louis P. Inserra, instructor in architecture, at the Architecture School.

The Study Abroad Program began three years ago, with Dr. Dagobert de Levie, as director. He is professor of German.

Arts and man

The department of philosophy symposium, "Arts Today and the Condition of Man," will begin today (Friday) at 8 p.m. in the Conference Center with a talk by Harold Rosenberg, noted art critic and historian, and author of "Arshile Gorky" and "Tradition of the New."

Speakers Saturday will include Stanley Kauffman, film and literary critic, and Harold Taylor, author and former president of Sarah Lawrence College. Vincent Tomas will speak Sunday.

PERSONNEL MATTERS



William H. Powers, associate dean for the Commonwealth Campuses and director of Continuing Education of the College of Science, has been granted a leave of absence for the first six months of the year to visit representative universities in the U. S. that provide large programs off their main campuses. Included are the Universities of Alabama, Florida, Georgia, Illinois, Indiana, Michigan, Minnesota, Missouri, Texas, Purdue, Wisconsin, and Michigan State.

James R. DeTuerk, landscape designer for a Philadelphia firm, has been appointed instructor in landscape architecture. He is a Penn State graduate. (Continued on page two)

ARTS —

(Continued from page one)

York, the Denver Museum of Art, the Colorado Springs Fine Arts Center, and the North Carolina Museum of Art.

The formal opening of the Art Education Graduate Students Exhibit will be held Sunday, Feb. 9, at 2 p.m. in the Chambers Building gallery. The exhibit includes prints, paintings, ceramics, sculpture, and jewelry by art education graduate students. Many items will be available for purchase during the exhibit, which will conclude Feb. 25.

A rotating exhibit of paintings by Art Education graduate students is currently being shown in the first floor area of Old Main.

artists series

Luigi Pirandello's "Six Characters in Search of an Author," which won for him the Nobel Prize, will be performed by the Circle in the Square Company tonight (Friday) and Saturday at 8:30 p.m. in Schwab Auditorium.

The Artists Series office has announced that the performance by Abbey Simon, pianist, scheduled for Saturday, Feb. 15, will not be given because of an extension of his European tour.

interlandia

Bill Brooks, noted folk-dance leader and instructor at Folk Dance Center in Philadelphia, will be the special guest of Interlandia Folk Dancers this evening (Friday) in the HUB ballroom. He will teach and demonstrate dances from all over the world.

All who are interested are invited to attend; no previous folk dancing experience is required. Dancing begins at 7:30 p.m.

PERSONNEL —

(Continued from page one)

graduate and received his master of arts degree in landscape architecture from the University of Michigan.

Harold G. Richard, Johns Hopkins University engineer in applied physics laboratory, has been named research assistant at the Ordnance Research Laboratory.

Robert Kaplan, a former caseworker at Rockview State Correctional Institution, has been appointed research assistant in the Human Performance Laboratory.

Fellowships

Faculty members are asked to call the attention of outstanding advanced graduate students that the deadline for filing applications for one of the eleven Graduate School Fellowships for 1964-65 is March 1. The fellowships provide a tax-free stipend of \$2000 for the fall, winter, and spring terms, plus a grant-in-aid to cover all tuition for the three terms.

These fellowships are open to any outstanding student who has completed at least 30 semester-equivalent credits of graduate work prior to September and is working for the doctorate.

Awards are made to any area of academic work, although some preference is given to areas where other types of aid are less prevalent, such as the humanities and social sciences, still keeping in mind the criterion of outstanding scholarship. The present recipients are in the areas of Art Education (two), Counseling in Education, English (two), History, Philosophy (two), Psychology, Solid State Technology, and Speech Pathology and Audiology.

Application forms may be obtained at the Graduate School Office, 101 Willard Building, by presenting a note from the department head, stating that the department will be able to support the application. A special part of the application requirement is a recent Miller Analogies graduate scholastic aptitude test score. This test will be given locally on Saturday, February 22nd. Time and place are announced on an information sheet given applicants. All application materials must be in by March 1st.

BOOKS



Dr. Dale B. Harris, professor and head of the department of psychology, is author of the book, "Children's Drawings as Measures of Intellectual Maturity," published recently by Harcourt, Brace, and World, Inc. The 329-page book, with a lengthy bibliography, is a revision and extension of the famous Goodenough Draw-A-Man Test, which was first outlined by Dr. Florence L. Goodenough in 1926. Dr. Harris sought to accomplish these goals in his book: to put in order some uncompleted aspects of the Goodenough research; to extend the knowledge of the psychology of children's drawings through original researches; and to present a comprehensive survey of the literature on

children's drawings in this country and abroad. The book contains a manual for the test administration and instructions for test judging.

Dr. John A. DeNovo, professor of American history, is author of "American Interests and Policies in the Middle East, 1900-1939," published by the University of Minnesota Press. The book describes and assesses the cultural, economic and diplomatic relations of the U. S. with countries of the Middle East prior to World War II. Activities of Protestant missionaries, educators, philanthropists, archaeologists, businessmen, and technical advisors are traced, as well as official actions of their government, in three periods: when the Ottoman Empire and Persia were stirring politically and culturally before World War I; during the upheavals of World War I through the Lausanne settlement in 1923; during the rising nationalist movements in Turkey, Persia, and Arab countries.

SENATE MINUTES



ANNUAL REPORT COMMITTEE ON ACADEMIC STANDARDS

During the 1962-63 academic year the Senate Committee on Academic Standards held eighteen meetings involving the full committee, as well as several meetings of subcommittees. Acting under authority of the Senate By-Laws, the Committee acted on 192 cases involving reinstatement or granting of exemptions from residence requirements. A summary of the Committee's actions follows:

Total cases considered	215
Cases involving reinstatement	177
Baccalaureate candidates—132 (108 granted, 24 denied)	
Associate degree candidates 45 (41 granted, 4 denied)	

Colleges into which reinstatement was requested:

Agriculture	12
Arts and Architecture	1
Business Administration	21
Chemistry and Physics	7
Education	3
Engineering	76
Home Economics	2
Liberal Arts	27
Mineral Industries	6
Physical Education and Athletics	0
Division of Counseling	22
Cases involving residence requirements	38

Rule E-3—33 (25 granted, 8 denied)	
Rule E-5—5 (5 granted)	

The Committee also considered a variety of other items, the most important of which was the initiation of a study of the present P-12 Rule. While this study is not yet complete, one change has been suggested and brought to the Senate for its consideration.

John R. Hayes, Chairman

ITEMS OF INTEREST



THE ARTS

- ALTMAN, HAROLD, an etching, "Meeting," purchased by Art Gallery of Greater Victoria for permanent collection.
- works on exhibit at Associated American Artists Gallery graphic exhibition, at Boston Museum of Fine Arts, at Audubon Artists 22nd Annual Exhibition, and at the 1640 Gallery in Montreal, Canada.
- FRANKSTON, LEON, art education, oil painting, "Bittersweet," honorable mention, at Allied Arts Guild, East Side Gallery, New York.

ELECTED AND APPOINTED

- BROWN, J. L., JR., Ordnance Research Laboratory, appointed associate editor of The Fibonacci Quarterly.
- CALVERT, SEYMOUR, Air Environment Center, appointed chairman of TR-1, research committee of the Air Pollution Control Association.
- DE LIVIE, DAGOBERT, German, appointed to the Academic Programs Abroad Committee of the Council of Student Travel.
- KOZAK, A. V., mathematics education, elected member of the Board of Directors, The Pennsylvania Council of Teachers of Mathematics, for three-year term.
- MARIN, JOSEPH, engineering mechanics, appointed to committee on pressure vessel shell theory of the Pressure Vessels Research Committee, sponsored by the Engineering Foundation of New York and the American Welding Society.
- MCCORMICK, R. H., chemical engineering, appointed to the National Student Chapters Committee of the American Institute of Chemical Engineers.
- appointed assistant editor of the National Student Members Bulletin, A.I.C.E.
- WIGAND, W. H., physical plant planning and construction, elected president of the Eastern Group, National Association of Physical Plant Administrators of Colleges and Universities.

LECTURES AND TALKS

- HEIDE, EUGENE, New Kensington, "What Does a College Education Mean to You," before Parentum High School students.
- ZELINSKY, WILBUR, geography, "Americanism as a Religion: the Ruminations of a Geographer," before the Kent State University Wesley Foundation.

ARTICLES AND PAPERS

- ADDISON, ARNOLD, Ordnance Research Laboratory, "Everyone's Responsibility: The Role of Universities, R/D Labs, and Management in Communication," in the January issue of Laboratory Management.
- BABIONE, FRANCIS, marketing, "The Application of New Purchasing Techniques to the Teaching of Industrial Marketing," at the winter conference of the American Marketing Association in Boston.
- BEITTEL, K. R., art education, "Curriculum Experimentation in Art Education as Seen through Recent Research," a chapter in the book, "Modern Viewpoints in the Curriculum," by Paul C. Rosenbloom.

- BUCK, R. C., Center for Continuing Liberal Education, "An Interpretation of Rural Values," a chapter in "A Place to Live," 1963 Yearbook of Agriculture.
- BROWN, J. L., JR., Ordnance Research Laboratory, "Relation Between Outputs of a Full-Wave and Half-Wave Linear Rectifier for a Class of Non-Gaussian Inputs," in the October issue of I.E.E. Transactions on Information Theory.
- BURNS, JANE M., speech (DuBois), "Town and Gown Theatre—An Evaluation," in the current annual issue of Playbill magazine.
- COYLE, J. J., business administration, "Interchange Protection and Community Structure," with H. K. Danserau, J. C. Frey, and R. D. Pashek, at the 43rd annual meeting of the Highway Research Board of the National Academy of Sciences.
- DE LEVIE, DAGOBERT, German, "Zum Begriff und Wort 'Menschlichkeit'" in the November issue of Monatshefte, publication of the University of Wisconsin.
- FARWELL, R. W., Ordnance Research Laboratory, with Eugene Ackerman, "Effect of Physical Factors on Reactions of Horse-Radish Peroxidase Complexes with Reduced Cytochrome C" in the November issue of Biophysical Journal.
- FINSKE, M. R., chemical engineering, "Petrochemicals, Fuels, and Lubricants," at the Hershey Community Building.
- FRANKSTON, LEON, art education, "Some Explorations of the Effect of Creative Visual Art Experiences upon the Poetry Writing Quality of Eighth Grade Students," in the Fall issue of "Studies in Art Education," published by the National Art Education Association.
- GREENHILL, L. P., Division of Instructional Services, "Evaluation of Instructional Television Programs," at the special National Educational Television conference in New Orleans.
- HANDMAN, A. K., meteorology, with L. G. Davis, "Surface Electric Field Measurements Associated with the Vertical Structure of Radar Echoes."
- HANSON, BILL, art, "Environments for Creativity "Photography in an Institution" a paper in the book, "Invitational Teaching Conference at the George Eastman House, 1962," published November, 1963, by George Eastman House Museum of Photography.
- HANSEN, CHADWICK, English, The Character of Jim and the Ending of Huckleberry Finn," in the current issue of Massachusetts Review.
- HAMILTON, R. H., Botany, with MORFELD, D. E., North Carolina State College, "Fate of Ipazine in Cotton Plants," in the fall issue of Weeds.
- "A Corn Mutant Deficient in 2,4-dihydroxy-7-methoxy-1,4 benzoxazin-3-one with an Altered Tolerance to Atrazine" in the January issue of Weeds.
- "The Tolerance of Several Grass Species to 2-chloro-5-triazine herbicides in Relation to Degradation and Content of Benzoxazinone Derivatives" in the Jan.-Feb. issue of the Journal of Agriculture and Food Chemistry.
- HILSON, C. J., botany, "Hybridization and Floral Vascularization" in the November-December issue of the American Journal of Botany.
- HOVIN, A. W., U.S.D.A. Pasture Research Laboratory, "Compatibility Reactions of Interspecific Hybrids between *Trifolium repens* L. and *T. nigrescens* Viv. in the Nov.-Dec. issue of Crop Science.
- LISS, W. J., and TRUANT, R. E., Ordnance Research Laboratory, "Improved Pathythermograph and the Measurement of Ocean Temperature" in the September-October issue of Sound.
- KLAUSS, E. E., THWESBURY, E. J., and FINSKE, M. R., chemical engineering, "High Temperature Hydraulic Fluids from Petroleum," in the December issue of Industrial and Engineering Chemistry.
- MARIN, JOSEPH, engineering mechanics, "A Course on Continuum Mechanical Behavior of Materials" in the Bulletin of Mechanical Engineering Education in England.
- McKEE, G. B., agronomy, "A Self-Powered Light Integrator for Ecological Research," in the Agronomy Journal.
- MCCARTHY, R. D., dairy science, with HOLTER, J. B. and KESLER, E. M., "Butyrate Metabolism in the Isolated, Perfused Goat Liver," in the November issue of the Journal of Dairy Science.
- MULLER, E. W., physics, "Field-Stress-Induced Surface Defects" at the annual New York meeting of the American Physical Society.
- "Progress in Field Ion Microscopy" at the International Conference on Materials in Philadelphia.
- PALERMO, D. S., psychology, "Word Associations and Children's Verbal Behavior," a chapter in the book, "Advances in Child Development and Behavior," edited by L. L. Lipsitt and C. C. Spiker.
- PAYNE, I. R., Altoona psychology, with JACKSON, D. N., Stanford University, "Personality Scale for Shallow Effect," in the December issue of Psychological Reports.
- PRZYBYLA, J. S., economics, "The Economics of the Sino-Soviet Dispute," in the Bulletin of the Institute for the Study of the U.S.S.R., December issue, published in Munich, Germany.
- "Notes on the Sino-Soviet Dispute," in the Winter issue of Queen's Quarterly, Queen's University.
- "The Conference of Western and Communist Economic Systems: 9 Critical Estimates" in the January issue of The Russian Review.
- PURSELL, R. A., botany, with REESE, W. D., University of Southwestern Louisiana, "Studies in American Fissidens I. A Revision of *F. garberi* Lesq. and James and *F. leptopodus* Card," in the Autumn issue of The Bryologist.
- "A Contribution to the Bryology of Texas," in the September issue of Castanea.
- SNOWDON, J. C., Ordnance Research Laboratory, "Transverse Vibration of Beams with Internal Damping, Rotary Inertia, and Shear," in the December issue of the Journal of the Acoustical Society of America.
- READ, J. J., metallurgy, "Metallurgical Principles Applicable to Electro-deposited Metals," in the book, "Modern Electroplating," sponsored by the Electrodeposition Division, Electrochemical Society.

(Continued on next page)

(Continued from page three)

— "Hardness Tests in Metal Finishing," in the 50th Annual Proceedings of the American Electroplaters Society.

ROY, RUSUM, geochemistry, "Quenchable Effects of High-Temperature Treatment on Nonmetallic Inorganic Materials," at the International Conference on Materials at Philadelphia.

RUTSCHKY, C. W., entomology, with R. L. CAMPBELL, "Fat Body Morphology of English Grain Aphids Infected with Barley Yellow Dwarf Virus," in the Annals of the Entomological Society of America.

SCHNITZ, M. W., animal behavior, "On the Reversibility of Imprinting," in the Sonderdruck aus "Zeitschrift fuer Tierpsychologie."

SHOFMAKER, BRANT, English at Ogontz, "Adult Education, Anyone," in Adult Education.

SKELL, P. S., chemistry, "Bridged Radicals," at the national meeting of the American Chemical Society in Denver.

STEVENS, DENIS, music, "La Music en Angleterre," a chapter in the second volume of the book, "Histoire de la Musique," published by Gallimard, of Paris.

STOYLE, JUDITH, business statistics, "Land Utilization as a Stochastic Process," in the Canadian Journal of Agricultural Economics.

SUSSMAN, M. R., finance, "Revenue Requirements and Efficient Capital Utilization," in the Jan. 2 edition of Public Utilities Fortnightly.

WILLIAMS, W. A., vocational education, "Safety Education in School Shops and Laboratories," in the magazine, Safety Standards, published by the U. S. Dept. of Labor.

WILLIAMSON, M. A., Engineering, "New Product Development," in the Encyclopedia of Management, published by Reinhold.

— the foreword by the book, "Effective Research and Development for the Smaller Company," written by Russel W. Henke.

YOUNG, PHILIP, American literature, an article on 82 American writers for the new Encyclopedia International, published by the Grolier Society.

CALENDAR



Friday, Feb. 7

Interlandia Folk Dance, 7:30 p.m., HUB ballroom. Bill Brooks, noted folk dance leader, as guest.

Artists Series, 8:30 p.m., Schwab Auditorium. Circle and the Square Company production of Luigi Pirandello's "Six Characters in Search of an Author."

Pavilion Theatre, William Gibson's "Dimmy and the Witches," curtain time 8 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. David Rankin, University of Victoria, on "Magnetotelluric Effect."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. William F. Hughes, Carnegie Institute of Technology, on "Thermodynamics of Electrically Conducting Fluids."

Saturday, Feb. 8

Artists Series, 8:30 p.m., Schwab Auditorium. Circle and the Square Company in "Six Characters in Search of an Author."

Pavilion Theatre production of "Dimmy and the Witches," 8 p.m.

Sunday, Feb. 9

Chapel Service, 10:55 a.m., Schwab Auditorium. Rabbi Benjamin Goldberg, on "The Way from God," in the Jewish-Christian Service.

Hillel Foundation Graduate Student Association program, 8 p.m. with Gershon Jacobson, staff correspondent, Jewish Day Journal, to the Ecumenical Council in Rome, on "The Ecumenical Council and the Jews."

Opening of Art Education Graduate Exhibit, 2-4 p.m., Chambers Building gallery.

Monday, Feb. 10

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. John P. Hagen, on "Radio Astronomy."

Lecture-recital by Alan Mandel, 8:30 p.m., HUB assembly room.

Physics Colloquium, 1:15 p.m., Room 117 Osmond. Dr. Basil Rose, Harwell, England,

on "Current Experimentation on the Harwell Synchrocyclotron."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. G. Sharma, on "Fracture of Viscoelastic Materials."

Tuesday, Feb. 11

Brotherhood Banquet, 6 p.m., HUB ballroom. Speaker: The Most Reverend William Connare, Bishop of Greensburg, on "Who Is My Brother?"

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering, on "Signal Processing Equipment," by Francis P. Finlon, Ordnance Research Laboratory.

College of Education faculty meeting, 2:20 p.m., Room 101 Chambers.

Thursday, Feb. 13

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

Phi Lambda Upsilon lecture by Dr. Thomas Oakwood, professor of chemistry, 7:30 p.m., Room 111 Boucke, on "The Origin of Petroleum."

Chemistry Colloquium, Room 310 Hammond, 12:45 p.m., Prof. K. Biermann, Massachusetts Institute of Technology, on "High Resolution Mass Spectra of Organic Molecules."

Friday, Feb. 14

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Helmut E. Weber, General Electric Company Space Sciences Laboratory, King of Prussia, on "Growth of an Arc Column in Coaxial Gas Flow."

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

PHI LAMBDA UPSILON

Dr. Thomas Oakwood, professor of chemistry, will address the February meeting of Phi Lambda Upsilon, honorary chemical society, Thursday, Feb. 13, at 7:30 p.m. in Room 111 Boucke. He will speak on "The Origin of Petroleum."

FLC MEETING

Dr. John P. Hagen, professor of radio astronomy, will talk on "Radio Astronomy," at the weekly meeting of the Faculty Luncheon Club Monday, Feb. 10, at 12:30 p.m. in HUB dining room "A."

faculty BULLETIN

Vol. 51, No. 29 Feb. 7, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR



Friday, Feb. 14

Mineral Industries Colloquium, 3:45 p.m., M. I. Auditorium. Dr. Siegfried Muessig, U. S. Borax Co., on "The Origin and Types of Borate Deposits."

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Helmut E. Weber, General Electric Co., King of Prussia, on "Growth of an Arc Column in Coaxial Gas Flow."

Interlandia Folk Dances, 7:30 p.m., Room 302 Engineering A.

Saturday, Feb. 15

Varsity athletics, rifle, vs. Cornell, 2 p.m.; gymnastics, vs. Syracuse, 3 p.m.; wrestling, vs. Syracuse, 8 p.m.

Sunday, Feb. 16

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gordon Harland, Drew University, on "The Wisdom and Power of God." Day of prayer for students.

Monday, Feb. 17

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Richard Schein, on "Environment and Plant Disease."

State College Color Slide Club, 7:30 p.m., Room 101 Chambers. Dr. Robert Swope, veterinary science, in illustrated lecture on India. Judging by Luther Kepler.

Engineering Mechanics Seminar, 3:30 p.m., Room 103 Hammond. Prof. J. Kiuselaas, on "Elastic Dislocation Fields."

Tuesday, Feb. 18

Economics Seminar, 12:15 p.m., HUB dining room "A." B. R. Shenoy, director and professor of economics, University School of Sciences, Gujarat, Ahmedabad, India, on "Indian Economic Policy."

Meeting of executive committee, A.A.U.P., 7:30 p.m., Room 124 Sparks.

Wednesday, Feb. 19

Meeting of Central Penna. section, American Chemical Society, 8 p.m., Room 112

(Continued on page six)

Industrial program

Hays B. Gamble, David L. Raphael, and Dr. Roger B. Saylor comprise a team which will conduct a study beginning early in March in Clinton County designed not only to seek specific ways to aid the industrial development of the County but to develop new methods of industrial development that can be applied to many Pennsylvania counties.

Participating in the program are several local organizations, and the Commonwealth Industrial Research Corporation (CIRC), the joint Penn State-Commonwealth agency initiated last year to speed industrial development in the State.

Operating as the Pennsylvania Regional Analysis Group, the three-man team will call on many specialists of the faculty to aid in the study. Gamble, who is research assistant in the Institute for research on Land and Water Resources, will devote full time to the project for the next several months. Raphael, assistant professor of industrial engineering, and Dr. Saylor, professor of business statistics, will devote about half time to the project.

Included in the study will be such aspects of the County's economic life as natural resources, transportation, educational facilities, and related material.

Scranton aid

The Scranton Center has been made the recipient of a pledge of support by member locals of the AFL-CIO Central Labor Union and the Scranton Building Trades Council in the Center's goal to raise \$300,000 for development of a campus in the city.

Amounting to \$60,000, the pledge is the largest single subscription to date and constitutes 20 per cent of the goal. It is believed to be one of the largest gifts, percentagewise, to a capital funds campaign made by a labor group anywhere in recent years.

Imagination

Dr. Tom F. Driver, assistant professor of Christian theology at Union Theological Seminary and drama critic for Station WBAI-FM, New York, will speak on "Theory of Imagination," in a regular Saturday Lecture sponsored by the faculty committee of the U.C.A. Saturday, Feb. 22, at 8 p.m. in Room 101 Chambers.

Well known for his lucid criticism of contemporary drama, Dr. Driver wrote the libretto for the oratorio, "The Invisible Fire," and directed the first American performance of D. H. Lawrence's "David."

JGE issued

The current issue of the Journal of General Education, published by the University Press, contains seven articles and six book reviews, including the following:

"Love and Wisdom: The Teaching of Philosophy" by Richard McKeon, professor of philosophy and Greek at the University of Chicago.

"A Confession, Didactically," by Kenneth Burke, literary philosopher.

"What Does 'Socrates' Read?" by Lewis A. Richards, associate professor of English and chairman of the Division of Language and Literature at General Beadle College, in South Dakota.

"Science for Nonscientists: Criteria for College Programs," by Gerald Holton, professor of physics at Harvard University.

"Conscience and Competence: 'Christian Values in the Student Personnel Program'" by Lloyd J. Averill, vice president and Dean of the Chapel, Kalamazoo College.

"Notes and Comments: Liberal Education for the Engineer," by John R. Zimmerman, assistant professor of mechanical engineering at Penn State.

"The Arrogant Intellectual," by Hans Rosenhaupt, national director of the Woodrow Wilson National Fellowship Foundation.

Members of the faculty who wish to take a subscription to the Journal may do so at half price. A limited number of single copies is available.

Dr. Ben Euwema is editor of the Journal, Carol Sams is assistant editor, and J. Mitchell Morse is book review editor.

Film consultant

Dr. John A. Hostetler, assistant professor of sociology and anthropology at the Ogontz Campus, was consultant in the production of a film, "The Hutterites," made by The National Film Board of Canada, completed recently.

Principal investigator of an intensive study of socialization in Hutterite communities, Dr. Hostetler has written several articles on this group of Anabaptists which originated in the Tyrol and Austria in 1529 and migrated to the United States in 1874-79. Many moved to Canada in 1918.

The Hutterites are distinguished by "living in complete community" and all property is held in common.

The film was produced by Colin Low, who has a reputation for making excellent films in Canadian life. It was produced in a colony in Canada and is aimed at showing the true nature of colony life to alleviate much of the misconception about the Hutterite Brethren.

Folklore and Reality

By Dean Ben Euwema

(This is one of a number of talks given at the Allenberry Conference of administrators of the University, including deans and heads of academic departments.)

THE subject of my address is the theme of this conference: "Folklore and Reality at Penn State." The title is, I suppose, intended to indicate that "reality" and "folklore" are contradictories. The assumption that folklore is unreal I shall not challenge; but if my brother, the Folksinger, were here, you would hear something! However, it is probably more accurate to say that, in folklore, we get a highly figurative, fictional account of an actual event or person. The story of Washington and the Cherry Tree is folklore, but Parson Weems was not entirely a liar: although the Cherry Tree incident probably never happened, it is a fact that George Washington was an honorable, honest, and truthful person. Folklore is "false as fact, but true as birth"—as Feuerbach said years ago of the Gospels.

Our concern here is with examples of academic folklore. These obviously concern articles of faith, more or less firmly held, which do not exactly correspond with reality.

This is a radically revolutionary era in our culture and, therefore, also in our educational system. The traditional mores and modes of behavior are becoming, if not obsolete, at least obsolescent. Almost all of yesterday's verities are today's uncertainties. The truths of 1934 are the folk tales of 1964. One of these folk tales asserts that there is a finite number of academic disciplines, each one clearly delineated and unambiguously distinguishable from every other. This was, of course, never the fact—and it is most certainly not the fact now. Chemistry tends to involve physics, physics tends to become mathematics, mathematics turns into logic, and logic becomes philosophy; and it all happens quite unobtrusively, quite naturally, and quite often. The "standard" discipline has all but disappeared. English literature of the twentieth century cannot be studied without also taking into account French, German, Italian, and American literature; nor without acknowledging Freud, Darwin, and Einstein. Economics merges into Political Science, and psychology slides into physiology; classical rhetoric becomes, first, literary criticism and, then communications theory.

The applied disciplines tend to become more nearly pure, and the pure disciplines grow more applied. Recently we have had accreditation problems in two departments at Penn State: they are both applied departments which were criticized for becoming too "pure." Meanwhile, several pure departments are seeking—and finding—vocational outlets. There are some critics of the liberal arts, for example, who say that the humanities are becoming vocational.

Just as the several academic disciplines

bleed into one another, so do the academic divisions, schools, and colleges. We have just completed a reorganization of our collegiate structure at Penn State. This was effected intelligently and courageously. And yet no one supposes that it is definitive, even as of this moment. Folklore assumes that there is an ideal arrangement, if only we could find it. It is most likely that no such organization exists. In other words, the university is protean, assuming one shape today and another tomorrow; perhaps it is more accurate to say that it is like a chameleon, changing its appearance from hour to hour. Like all living things, it defies rigid subdivision; it seems to have a direction and impetus of its own.

Therefore, as wise women and men, we should recognize this as the reality and accept our little universe as it is—bewilderingly complex, ever-changing, and excitingly alive.

IT is standard academic piety to hold that the university is "a community of scholars," that all members of the community are equal (although, as Orwell said, some are more equal than others), and that everyone shares in the making of academic decisions. Actually the power structure of the university has never been definitively analyzed, and it is clear that the loci of power have changed from time to time.

When I came to Penn State in 1946, most of the real power in the institution vested in the colleges (or "schools," as they were then called). Each dean was an almost completely self-sufficient satrap, and (as it was in the days of the Judges) "every man did that which was good in his own eyes." During the inter-regnum between President Hetzel's death and President Eisenhower's administration—i.e., from 1947 to 1950—the deans were almost entirely independent. They were held together very tenuously, if at all, by means of the Council of Deans and by that great unsung hero of recent Penn State history, Adrian Morse.

Since then, decision-making has increasingly been gathered together elsewhere, as the control of the university has become more and more centralized. This is true, in part, because the colleges are undergoing a process of gradual decay. The recent reorganization of the university has demonstrated what an artificial and (even) whimsical organism a college actually is: You can lop off this department and add that one, and no one seems to notice the difference. And the reason nobody cares too much is obvious: the college is actually an arbitrary and artificial institution; there are really no natural

and inevitable divisions; and, in any case as I believe, the college is fading away.

Another reason for the change in the university's power structure is that several entirely new administrative of semiadministrative mechanisms—most of them ad hoc—have rushed in to fill the vacuum created by the decay of the colleges. Today a great many important administrative decisions are made in hitherto unsuspected places—by minor members of the bureaucracy as clerks, by committee of the Senate, by intracollege committees, by institutes, by assistants to the dean, and so on.

What I am saying is that, although the deans lost much of their power, the president did not greatly increase his. The decision-making process has simply become more and more diffuse.

In short, what once appeared to be clear, unambiguous, and direct is actually quite complicated, even unpredictable.

And it all gives the lie to another bit of folklore—namely, that policy making and administration can be kept distinct. Actually, as we all know, they constantly merge into one another. Before 1946, as I understand it, every academic dean had authority to readmit students who had been dropped for poor scholarship. That is to say, the policy was set by the Senate, but the deans administered the policy. However, in one year and in one school, the dean readmitted 39 students after 39 students had been dropped. In this instance, who actually set the policy? Or, for that matter, what did the policy amount to?

In Academe we cherish a number of beliefs. Some of them, like the Paul Bunyan stories, are gross exaggerations of reality; others, like the Arthurian romances, are sheer fabrications.

The first bit of academic folklore I ever encountered has to do with the basic nature of the academic enterprise: I was told that the Halls of Academe are the havens of intelligence, rationality, and the objective passion for Truth. We all believe this to be more or less true, and, whatever our fields of special interest, we never weary of telling our students—freshmen and Ph.D. candidates alike—that reason is a hard taskmaster, that proofs must be rigorous, evidence must be critically examined and admitted only on the basis of its demonstrable relevance, that bias and prejudice must be avoided like the plague, and that nothing is ever as simple as white vs. black.

These admonitions are all obvious and irrefutable. But, when the professor or dean begins to pass judgment upon matters not immediately relevant to his specialty, he

BOOKS



Dr. Wilfred T. Jewkes, associate professor of English, and Jerome B. Landfield, of Oberlin College, are co-editors of "Joan of Arc: Fact, Legend, and Literature," published by Harcourt, Brace, and World, Inc.

The book contains the most significant facts, legend, and literature about Joan in the following titles: The Trial, selections from the records of the trial; The Retrial and Rehabilitation, selections from the records of the Retrial; Raphael Holinshed's Chronicles of England, Scotland, and Ireland; Friedrich Schiller's "The Maiden of Orleans"; The Official Pronouncement of Canonization; George Bernard Shaw's "Saint Joan"; and Jean Anouilh's "The Lark."

In addition the editors have provided a chronology of events in the 14th and 15th centuries which are pertinent to the Joan of Arc story, beginning with the death of Charles IV in 1328 and concluding with the death of Joan's mother. Also included are the dates concerned with her canonization by Pope Benedict XV in 1920. A bibliography, topics for writing and research, and a selected genealogy have been furnished.

"Joan of Arc" is one of the Harbrace Sourcebooks, under the general editorship of David Levin, Stanford University.

PERSONNEL MATTERS



Richard L. Sanford, geologist with the U. S. Soil Conservation Service, has been appointed research assistant in the department of mineral industries. He is a native of Laramie, Wyoming, received his bachelor of science degree in mining engineering from Wisconsin State College and Institute of Technology.

Dr. Richard E. Low, since 1958 economics editor for Crowell-Collier Publishing Co., has been appointed assistant professor of economics. He was research assistant with the U. S. Chamber of Commerce, 1953-55, and research associate for the American Management Association, 1955-58. He is a Princeton graduate, obtained a bachelor's degree in law from New York University, and was granted the doctor's degree in economics from Harvard.

SUMMER INSTITUTES

Sponsored by the National Science Foundation, Summer Institutes for Secondary Teachers Science and Mathematics will be conducted again this year, with about 60 teachers expected for the ten-week science institute and 35 teachers for the six-week mathematics institute. Dr. Thomas C. Bean, professor of mathematics, will direct the program in his area of interest, a William H. Powers, associate dean for continuing education in the College of Science, will direct the program for teachers of biology, chemistry, physics, and earth sciences.

PHI DELTA KAPPA MEETING

Phi Delta Kappa honorary education fraternity, and Lambda Theta, women's education fraternity, will hold a combined meeting (Friday) at 6:30 p.m. in the HUB dining room "A."

FLC LUNCHEON

Dr. Richard Schn, associate professor of botany, will speak on "Environment and Plant Disease" at the weekly Faculty Luncheon (Monday, Feb. 17, at 12:30 p.m. in HUB dining room "A.")

SENATE MEETING

The student organization, SENSE, and the Friends Peacel Social Order Committee are co-sponsors of a talk by Ralph Levitt, one of the Indiana University students, officers of the Young Socialist Alliance, who has been indicted and whose cases have attracted national attention. He will speak on "Today's Witchhunt on Campus," Wednesday, Feb. 19, at 7 p.m. in Room 121 Sparks. Levitt's visit is sponsored by the National Committee to Abolish the Loyalty Program.

THEATRE

Jean Paul Sartre play, "No Exit," will be featured by Experimental Theatre in the Little Theatre Old Main, Thursday, Friday, and Saturday, Feb. 20-22, at 8 p.m. The production is a thesis by graduate student Jack Shan. Tickets may be obtained, free of charge, at the Green Room in Schwab Auditorium.

OFFICE LISTING

Members of the faculty and staff who wish to discuss with or direct letters to Dr. E. B. Van der, in matters concerned with Graduate School business, should do so through the office in Room 101 Willard, Phone 865-6323. This information was omitted from the Faculty-Staff Directory and only his office in Chambers Building is listed.

SCHOLARSHIP

Two scholarships for engineering and physics students who need financial assistance have been established by C-Cor, Inc., of State College. Valued at \$500 each, the scholarships will be provided, one to an electrical engineering student, the other to a physics major, undergraduates who have completed at least three terms and have grade average of 2.5 or better.

GRANTS



F. R. Matson, Liberal Arts, \$18,800, National Science Foundation, for technological study of prehistoric artifacts.

R. G. Creech, plant breeding, and J. D. Lorech, biochemistry, \$57,200, National Science Foundation, for study of genetic control of carbohydrate metabolism in maize endosperm.

A. K. Blackadar, meteorology, \$14,999, U. S. Air Force, for research on heat and momentum flux in the planetary boundary layer.

G. F. Wislicenus, aeronautical engineering, \$20,000, U. S. Office of Naval Research, for research on hydrodynamics of submerged bodies.

J. P. Hagen, electrical engineering, \$25,000, U. S. Office of Naval Research for studies of millimeter wave and solar system research.

Robert Stefanko, mining, \$20,000, Penna. Dept. of Mines and Mineral Industries, for investigation of the technical aspects on the control and disposal of miner water to minimize stream pollution.

C. B. Manula, mining engineering, \$15,000, Pa. Dept. of Mines and Mineral Industries, on study of optimization of mine production systems for low cost mining.

B. J. Kochanowsky, mining engineering, \$20,000, Pa. Dept. of Mines and Mineral Industries, for studies of strip mining and land restoration.

J. J. Schanz, mineral economics, \$17,000, Pa. Dept. of Mines and Mineral Industries, for research on the economic importance of the coal industry to Pennsylvania.

D. R. Mitchell, mining engineering, and T. S. Spicer, mineral preparation, \$55,000, Pa. Dept. of Mines and Mineral Industries, for studies of anthracite breaker refuse.

H. L. Lovell, mineral preparation, \$20,000, Pa. Dept. of Mines and Mineral Industries, for studies related to mine stream pollution control.

E. G. Buss, poultry science, and R. V. Boucher, biochemistry, \$15,376, U. S. Public Health Service, for study of influence of a mutant gene on riboflavin metabolism.

R. E. McDermott, forestry, \$200, Penna. Christmas Tree Growers Assoc., for research on growing and marketing Christmas trees.

D. R. Mitchell, mining engineering, \$700, Herbert Grunfeld and Ernest Grunfeld Trust, to support mineral research.

G. E. Rindone, ceramic technology, \$1,000, Prismo Safety Corporation, for research on glass.

C. C. Wernham, plant pathology, \$500, Cooperative G.L.F., for studies of disease resistance in corn.

W. K. Murphey, forestry, \$26,100, National Science Foundation, for studies of controlled nutrient growth medium on the mechanical properties of wood.

L. P. Greenhill, Division of Instructional Services, \$1,690, U. S. Office of Education, to provide for distribution plan for instructional television film.

Folklore and Reality

By Dean Ben Euwema

(This is one of a number of talks given at the Allenberry Conference of administrators of the University, including deans and heads of academic departments.)

THE subject of my address is the theme of this conference: "Folklore and Reality at Penn State." The title is, I suppose, intended to indicate that "reality" and "folklore" are contradictories. The assumption that folklore is unreal I shall not challenge; but if my brother, the Folksinger, were here, you would hear something! However, it is probably more accurate to say that, in folklore, we get a highly figurative, fictional account of an actual event or person. The story of Washington and the Cherry Tree is folklore, but Parson Weems was not entirely a liar: although the Cherry Tree incident probably never happened, it is a fact that George Washington was an honorable, honest, and truthful person. Folklore is "false as fact, but true as myth"—as Feuerbach said years ago of the Gospels.

Our concern here is with examples of academic folklore. These obviously concern articles of faith, more or less firmly held, which do not exactly correspond with reality.

This is a radically revolutionary era in our culture and, therefore, also in our educational system. The traditional mores and modes of behavior are becoming, if not obsolete, at least obsolescent. Almost all of yesterday's verities are today's uncertainties. The truths of 1934 are the folk tales of 1964. One of these folk tales asserts that there is a finite number of academic disciplines, each one clearly delineated and unambiguously distinguishable from every other. This was, of course, never the fact—and it is most certainly not the fact now. Chemistry tends to involve physics, physics tends to become mathematics, mathematics turns into logic, and logic becomes philosophy; and it all happens quite unobtrusively, quite naturally, and quite often. The "standard" discipline has all but disappeared. English literature of the twentieth century cannot be studied without also taking into account French, German, Italian, and American literature; nor without acknowledging Freud, Darwin, and Einstein. Economics merges into Political Science, and psychology slides into physiology; classical rhetoric becomes, first, literary criticism and, then communications theory.

The applied disciplines tend to become more nearly pure, and the pure disciplines grow more applied. Recently we have had accreditation problems in two departments at Penn State: they are both applied departments which were criticized for becoming too "pure." Meanwhile, several pure departments are seeking—and finding—vocational outlets. There are some critics of the liberal arts, for example, who say that the humanities are becoming vocational.

Just as the several academic disciplines

bleed into one another, so do the academic divisions, schools, and colleges. We have just completed a reorganization of our collegiate structure at Penn State. This was effected intelligently and courageously. And yet no one supposes that it is definitive, even as of this moment. Folklore assumes that there is an ideal arrangement, if only we could find it. It is most likely that no such organization exists. In other words, the university is protean, assuming one shape today and another tomorrow; perhaps it is more accurate to say that it is like a chameleon, changing its appearance from hour to hour. Like all living things, it defies rigid subdivision; it seems to have a direction and impetus of its own.

Therefore, as wise women and men, we should recognize this as the reality and accept our little universe as it is—bewilderingly complex, ever-changing, and excitingly alive.

IT is standard academic piety to hold that the university is "a community of scholars," that all members of the community are equal (although, as Orwell said, some are more equal than others), and that everyone shares in the making of academic decisions. Actually the power structure of the university has never been definitively analyzed, and it is clear that the loci of power have changed from time to time.

When I came to Penn State in 1946, most of the real power in the institution rested in the colleges (or "schools," as they were then called). Each dean was an almost completely self-sufficient satrap, and (as it was in the days of the Judges) "every man did that which was good in his own eyes." During the inter-regnum between President Hetzel's death and President Eisenhower's administration—i.e., from 1947 to 1950—the deans were almost entirely independent. They were held together very tenuously, if at all, by means of the Council of Deans and by that great unsung hero of recent Penn State history, Adrian Morse.

Since then, decision-making has increasingly been gathered together elsewhere, as the control of the university has become more and more centralized. This is true, in part, because the colleges are undergoing a process of gradual decay. The recent reorganization of the university has demonstrated what an artificial (and even) whimsical organism a college actually is: You can lop off this department and add that one, and no one seems to notice the difference. And the reason nobody cares too much is obvious: the college is actually an arbitrary and artificial institution; there are really no natural

and inevitable divisions; and, in any case as I believe, the college is fading away.

Another reason for the change in the university's power structure is that several entirely new administrative of semiadministrative mechanisms—most of them ad hoc—have rushed in to fill the vacuum created by the decay of the colleges. Today a great many important administrative decisions are made in hitherto unsuspected places—by minor members of the bureaucracy as clerks, by committee of the Senate, by intracollege committees, by institutes, by assistants to the dean, and so on.

What I am saying is that, although the deans lost much of their power, the president did not greatly increase his. The decision-making process has simply become more and more diffuse.

In short, what once appeared to be clear, unambiguous, and direct is actually quite complicated, even unpredictable.

And it all gives the lie to another bit of folklore—namely, that policy making and administration can be kept distinct. Actually, as we all know, they constantly merge into one another. Before 1946, as I understand it, every academic dean had authority to readmit students who had been dropped for poor scholarship. That is to say, the policy was set by the Senate, but the deans administered the policy. However, in one year and in one school, the dean readmitted 39 students after 39 students had been dropped. In this instance, who actually set the policy? Or, for that matter, what did the policy amount to?

In Academe we cherish a number of beliefs. Some of them, like the Paul Bunyan stories, are gross exaggerations of reality; others, like the Arthurian romances, are sheer fabrications.

The first bit of academic folklore I ever encountered has to do with the basic nature of the academic enterprise: I was told that the Halls of Academe are the havens of intelligence, rationality, and the objective passion for Truth. We all believe this to be more or less true, and, whatever our fields of special interest, we never weary of telling our students—freshmen and Ph.D. candidates alike—that reason is a hard taskmaster, that proofs must be rigorous, evidence must be critically examined and admitted only on the basis of its demonstrable relevance, that bias and prejudice must be avoided like the plague, and that nothing is ever as simple as white vs. black.

These admonitions are all obvious and irrefutable. But, when the professor or dean begins to pass judgment upon matters not immediately relevant to his specialty, he

does not hesitate to disregard these pieties altogether. A man will write a scholarly article that is a model of rigor, clarity, and objectivity; and, in the next breath, he will approach a departmental or college problem as though he were the Governor of Mississippi handling a racial incident. Folklore says that we are highly dispassionate men and women; the reality is that our disinterestedness is only prejudice-deep.

It is pathetic and amusing to note the great care with which we express ourselves in those fields in which we are more or less expert and the casual and careless ways in which we generalize about academic matters in which we are, at best, gifted amateurs and, at worst, completely uninformed or misinformed. Our care and scientific detachment are in inverse ratio to our expertise. Folklore suggests that there is a direct transfer of the rigor of scholarship to the solutions of academic problems. This condition obtains, alas, only in the University of Utopia; and PSU is not yet UU.

ANOTHER bit of folklore has to do with security: the familiar dichotomy opposes the Insecure Professor Without Tenure to the Secure Professor With Tenure. During my early years at Penn State, I was constantly reminded by members of the Liberal Arts faculty that we urgently needed a tenure system. We finally got one soon after 1950. I felt then, and I do now, that a tenure system can perform a useful service as a guarantor of academic freedom and the spirit of free inquiry.

However, when the system was introduced and hundreds of members of the faculty were blanketed into the scheme, there was no detectable increase in their sense of security. The fact, of course, is that a sense of security is not at all directly related to the conditions of one's employment: the sense of security is what the Book of Common Prayer would call "an inner grace." You and I, if we feel insecure, do so because of a certain psychological imbalance, not because Penn State either has or does not have a system of tenure. If you and I hesitate to say what we think, our silence is more likely to be caused by native timidity than by any well-founded fear of reprisal.

Paradoxically, the granting to certain persons of the outward symbols of security may actually tend to make them feel less secure. For, in doing so, we may have removed the only excuse which makes their own timidity tolerable to themselves. When a person can no longer say that he fears to express his own ideas because there is no tenure system to protect him, then he must face the unpalatable truth: that either he has no ideas to express or else, for reasons as yet undetermined, that he is still afraid to say what he thinks.

Similarly, there is a type of administrator who complains because of his immersion in the minutiae of administration. But he will resist being relieved of it, simply because this renders him defenseless. If there is no longer any routine to absorb him, then he is naked to his enemies; he must either pro-

duce something more worthwhile than routine, or else hold his peace. And either alternative is intolerable.

A certain amount of insecurity is, of course, inevitable and even desirable. The sense of insecurity goes deep in all of us and none is really immune unless he is either an idiot or a fool. It is a truisim to say that to be alive is to be insecure. However, when the sense of insecurity grows to the point at which it interferes with one's routine efficiency, then it has gone too far. It has then become a sickness.

In many ways, an academic career is less competitive than almost any other. Most of the competition we react to is artificially engendered, almost always by ourselves. Yet it is nonetheless real for all that. A new department head is appointed, and at once every member of the department feels as though he is personally on trial. He forgets, of course, that it is the head who is on trial, not he. It is the head who must make good, who must establish himself, who must demonstrate his competence both to the president and to the lowliest instructor.

But, of course, insecurity is irrational. It exists deep in the soul, far below the levels of conscious thought, and creates tensions and anxieties which cannot be relieved by argument. And so, if a man comes in your office to complain about a course or a colleague and if you suspect that what moves him is a sense of insecurity, perhaps what he needs is no more than reassurance that you value him highly, that he is important to the whole university enterprise, and that (without him) your work would be more difficult and less rewarding. Usually, the insecure colleague needs only to be reassured that he is loved, respected, and, above all, needed.

A familiar bit of folk-lore pits education against gadgetry. The assumption is that you cannot have both, that you must choose, and that what I like is education and what I do not like is gadgetry.

Obviously, the besetting sin of the gadgeteer is that he confuses means and ends—or, worse, that he ignores the ends because of his infatuation with the means.

The university exists only to pursue the truth and to disseminate it. Everything else is secondary. And rightly considered, everything that helps in these pursuits is useful, and everything that does not is irrelevant. In a modern, complex university like ours, it is sometimes necessary to find time, space, and money for activities which are only very remotely connected with the ultimate objectives of the university. These activities can only be justified if the connection, however indirect, is unambiguous. However, the law of diminishing returns operates here; and it should be obvious that the farther we move away from the search for truth and its dissemination, the less easily we can justify what we are doing.

In spite of all this, the fact remains that, as academics, we are all too often fascinated by the How, forgetting the What: we are enraptured by machinery, forgetting what it is that the machinery is supposed to contribute to the final result.

I SHALL not weary you by repeating the old clichés about the proliferation of courses, the multiplication of forms, the burgeoning of committees, and the fission of departments and colleges. Nevertheless, every week or so, one encounters a professor who urges a new grading system, because he finds it difficult to distinguish between a 68 and a 68½. He is apparently of the opinion that knowledge admits of such exactly quantitative assessment; he does not seem to realize that he is unconsciously revealing his own academic naivete. Worse. For he is not only naive; he is perverse. To calibrate a student's progress as though it were mercury in a tube is to misunderstand the whole process of learning and the principal objective of the university.

In making budgets, we are apt to fall into the same trap. We seek money first for everything except instruction and research. The machinery fascinates us; the basic aims continue to elude us. This is, I suppose, the besetting sin of administrators. We love to reproduce our kind, we dote on forms, committees, new techniques of teaching, and so on. Part of this is, of course, necessary in order to counteract the awesome conservatism of the faculty; but a good deal of it can only be ascribed to Original Sin: it is the Old Adam in us.

However, it is just as easy to sin on the other side: to condemn out of hand anything that is new, unfamiliar, uncongenial, or threatening to our sense of security. Budgets can be useful things; life would be much more difficult without them. It is never a simple Either-Or proposition.

The most venerable of all dichotomies is Research vs. Teaching. The folk-lore has it that these are distinct and antithetical activities; that, when you are doing one, you must of necessity be neglecting the other. We all recognize that this is nonsense; for, as a matter of fact, you can't very well do either one of them without also partially doing the other. The student comes to the university to encounter scholars, to be taught by them, and (ideally) to work with them at extending the boundaries of human knowledge. The able professor teaches what he is himself learning; the moment he stops learning, he loses his enthusiasm, freshness, and intellectual authority. In much the same way, the researcher teaches—if not in a classroom, then in scholarly publications. Both teaching and research are social activities, perhaps originating in solitude but always insuring in some sort of communication.

Another false dichotomy is Quantity vs. Quality. The belief that you cannot have the one with the other, that you must choose, is actually based upon snobbery. A few, relatively small, highly prestigious institutions set the model, and the hackneyed and misunderstood symbol of Mark Hopkins and the log contribute to the perpetuation of the notion. The fact that the student-teacher ratio in the Mark Hopkins situation was 1:1 does not automatically suggest that quality teaching eventuated: Hopkins may have been boring the student to death. And, on another extreme, one cannot argue from the fact that Jesus taught multitudes that his

performance was, therefore, ineffective and without result.

Actually, of course, quality and quantity are two distinct attributes of teaching, and they are no more antithetical than the lecture and the discussion. You can have quantity with poor quality and high; you can have a tutorial system that is excellent as well as one that is poor. I suppose that, in the last analysis, the matter of classsize should be determined by the nature of the discipline to be taught, the level of the students, and the personal skills of the instructor.

DEPTH vs. Generalization. This is another venerable dichotomy. The folk-lore suggests that you must choose the one or the other. This is a very curious allegation, for we are dealing here with two abstractions of an extremely high order. We assume that general education cannot have depth, and we imply that special education has depth in a sort of direct, automatic fashion. Stated in this bald form, no one would seriously wish to defend the thesis; but, of course, we usually encounter these notions in other and more complicated contexts.

The distinction between general and special education is actually very difficult to draw. We usually feel that what determines which is which is the student's objective: for a law student a course in Latin may be special and professional, for a mathematics major it may be general. You see immediately how absurd it is to assume that the same course is deep in one case and shallow in another. Furthermore, the law student may never practice law—very many law school graduates do not—and then the Latin course must again become superficial and shallow.

The general education of an engineer or an animal husband who decides to go into his father-in-law's jewelry business obviously consists of courses in engineering and animal husbandry—which are, therefore, by definition shallow. A man I met in Europe took required courses in Spanish at Penn State, under protest and as part of his general education. When I saw him, he was selling heavy machinery in Spain!

The assumption that specialized education is "deep" and general education "shallow" is just another bit of campus folklore. The error, as is not seldom the case, is based on metaphor. If you take a hundred gallons of water and put it in a six-inch stand-pipe, the result will be depth; if you pour it into a swimming-pool, the result will be shallowness. But it is, in each case, the same hundred gallons of water. The point is simply that general education and special education are very difficult to distinguish, in the first place, and they can both be shallow or deep, depending on the level at which they are presented.

Another false dichotomy pits liberalism against conservatism. It is true, there are professors who are liberals and there are those who are conservatives; but anyone who attempts to find a meaningful pattern in this will be disappointed. The political

liberal may be—and, surprisingly, often is—an educational conservative. The man who is liberal in his attitude towards the curriculum may be conservative in his concept of student behavior. The professor who is liberal with respect to student behavior may be conservative when his own daughter is involved. A man may be liberal in his passion for course revisions in every department but his own, or in every departmental offering except his own. I have actually been told by professors that their courses could not possibly be improved in any way. One of the men who told me this is known campus-wide as a liberal!

These labels, useful in narrow and specific contexts, are extremely confusing when applied in a blanket way. In politics such labels are useful, if misleading; in academic life, such labels are almost always meaningless.

I am not an academic who believes in the Golden Mean and in the sanctity of the Middle-of-the-road. Such small progress as the human race has made was brought about by extremists—by persons who were willing to expose themselves. We who are content to jog along in the middle of the road are actually permitting extremists to determine our position. If the two endpoints are determined by others and we try to occupy the center, we are actually permitting the two extremes to dictate our stance. This is the actual posture of most comfortable middle-class devotees of the status quo—in politics, in society, and in the university.

However useful and sane the Middle-of-the-Road may be in national or state politics—this too is debatable—in Academe he is in a pretty indefensible position. The middle of the road in Academe is crowded with followers, not leaders; with imitators, not originators; with worshippers of the past, not trail-blazers for the future. These are the people who constantly want to know what is being done elsewhere, who speak of "standard" courses of study, who tremble before accrediting agencies, who are slavish worshippers of questionnaires and statistics, and who (at meetings of this sort) constantly ask for a show of hands.

Another myth is that two heads are better than one. The extraordinary belief that a committee can come closer to the truth than any individual dies hard, if at all, in university circles. This is another Quality vs. Quantity misapprehension. Obviously the head of one genius is more valuable than the heads of two morons—but, of course, we are dealing with no morons and a very limited number of geniuses.

The passion for committees and for the consensus arises from our overweening conservatism. We fear the eccentric, the unique, the unconventional; and so we prevent their occurrence by means of the committee approach. The usual committee report is no stronger than its weakest link; it usually takes the form of a timid aggregation of platitudes. In its desire to be fair to everyone and to offend no one, it arrives nowhere at all. You all recall the statement that "A camel is a horse put together by a committee."

I HAVE saved for the last one of our most deeply cherished bits of folk-lore: that there is an inevitable and continuous opposition between Old Main and Sparks, or Old Main and Sackett, or Old Main and Tyson. This is really a pretty silly business, and it is difficult to understand how grown men and women could have grown so devoted to it.

(I hasten to say that it is, in no sense, an exclusive Penn State phenomenon. Every university exhibits an Old Main vs. Blank Hall syndrome.)

We are all sinners here, both the denizens of Old Main and the rest of us.

The administration perpetuates the myth when general university officers confuse personal pronouns. When someone in Old Main says, "You people in Engineering," he is contributing to misunderstanding. I once knew a college president who, during his entire tenure extending over ten years, was never heard to say "We." He said "You students are unreasonable" and "You faculty members set up too many courses" and even "—so help me!—"You janitors use too much Old Dutch Cleanser." And then I suppose he wondered why the students and the faculty and the janitors did not "identify" with the college. His every attitude underscored the rift between administration and the rest of the college.

It is, of course, obvious that a university must be a joint enterprise. It is not only the professors and dean of Engineering who wish sound instruction, research, and extension to go forward in their college. (It is, of course, actually, not even "their college" at all.) Sound work in Engineering is a university commitment and a university triumph. Shabby work is a university failure.

The faculty member reinforces the myth when, in his turn, he refers to administrators as though they were the primordial curse of a jealous and angry tribal deity.

The truth of the matter is, of course, almost too obvious to mention. Both are necessary, and when one group is weak, the university suffers—no matter how strong the other group may be.

Administration is at its most admirable when it leads. Non-administrative elements in the university are not most admirable when they merely follow, but when they react positively to leadership—by enthusiastic acceptance, by critical revision, or by implacable opposition.

Ideally considered, we are all administrators and all faculty members: we are, in short, all engaged in a common effort. The enemy is not Old Main, or the Senate, or the faculty, or even The Collegian; the enemy is Unreason. Instead of belaboring one another, exhilarating and satisfying as that may be, let us attack the citadels of Ignorance, Prejudice, and Intellectual Blindness. The ideal is not primarily Order and Discipline: it is Freedom—freedom from bias, superstition, and the false gods of the marketplace; freedom to pursue the truth and to live a life of reason, sanity, and personal fulfillment.

CALENDAR —

(Continued from page one)

Buckhout, Dr. Henry S. Frank, University of Pittsburgh, on "Water Structure and the Thermodynamics of Aqueous Solutions."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. W. E. Ham, Oklahoma Geological Survey, on "Basement Rocks and Structural Evolution of Southern Oklahoma."

Talk by Ralph Levitt, student at Indiana University, sponsored by SENSE and the Friends Peace and Social Order Committee, 7 p.m., Room 121 Sparks.

Varsity athletics: basketball, vs. West Virginia, 8 p.m.

Recital by Samuel Gordon, tenor, 8:30 p.m., Schwab.

Thursday, Feb. 20

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Leslie Curry, Arizona State University, on "Motional Transfer as a Stochastic Process."

Experimental Theatre production of Jean Paul Sartre's "No Exit," directed by Jack Shaheen, 8 p.m., Little Theatre, Old Main. Tickets, at no charge, Schwab Auditorium green room.

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore, Dr. C. H. Liu, Brooklyn Polytechnic Institute, on "Coordination Chemistry in Molten Solvents."

College of the Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Friday, Feb. 21

Jazz Club concert by Cannonball Adderly Quartet, 8 p.m., Schwab. Tickets for non-members at HUB desk.

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering A.

Experimental Theatre production, 8 p.m., Little Theatre, Old Main.

Lecture by Ruth Shonly Cavan, distinguished visiting professor of family relationships, on "Current Views on the Family and the Delinquent," 7:30 p.m., Room 209 Home Economics.

THE ARTS



gordon concert

Samuel Gordon, tenor, visiting lecturer in music, assisted by the Alard Quartet, Dr. Leonard Raver, organist, Marcia Scholten, pianist, Ned Corman, oboist, and Ann Walker, flutist, will give a recital Wednesday, Feb. 19, at 8:30 p.m. in Schwab Auditorium.

His program will include a group of Caroline songs and arias from Handel's "Judas Maccabaeus," accompanied Dr. Raver; Bach's Cantata No. 189 and a song cycle by Gabriel Faure, accompanied by Mrs. Scholten; and the Ralph Vaughan Williams' cycle, "On Wenlock Edge."

exhibitions

Two art exhibits are currently on display. The Art Education Graduate Exhibit, which features prints, paintings, ceramics, sculpture, and jewelry by Art Education graduate students, will continue on display in the Chambers Building gallery until Feb. 25.

Paintings by Enrique Montenegro, assistant professor of art, are on display at the HUB gallery, and will remain until March 1.

theatre

The next production by University Theatre will be Shakespeare's "A Midsummer Night's Dream," directed by Frank Neusbaum. It will play at Pavilion Theatre March 3-7.

Delinquents

"Current Views on the Family and the Delinquent" will be discussed by Ruth Shonly Cavan, distinguished visiting professor of family relationships Friday, Feb. 21, at 7:30 p.m. in Room 209 Home Economics.

Among Mrs. Cavan's 12 books are "The American Family" and a text book on juvenile delinquency. A book on readings on the same subject will be published this month by Lipincott. She has also written over 50 articles for professional journals.

Mrs. Cavan is professor emeritus of sociology at Rockford College. She attended the first and second World Congress on Prevention of Crime and Treatment of Offenders, sponsored by the U. N.

ITEMS OF INTEREST



ELECTED AND APPOINTED

EAKIN, J. H., extension agronomy, elected vice chairman of the extension division, American Society of Agronomy.

FINSKE, M. R., chemical engineering, re-appointed to second three-year term on the Advisory Committee on Chemical Engineering at Argonne National Laboratory.

MARIN, JOSEPH, engineering mechanics, appointed member of the Materials Committee, Mechanics Division, American Society of Civil Engineers.

MCCORMICK, R. H., chemical engineering, reappointed to the National Student Chapters Committee, American Institute of Chemical Engineers, and reappointed assistant editor of the National Student Members Bulletin.

RICHARDS, M. D., management, re-elected secretary-treasurer, Academy of Management.

faculty BULLETIN

Vol. 51, No. 30 Feb. 14, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

CALENDAR



Friday, Feb. 21

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

Lecture by Ruth Shonle Cavan, distinguished visiting professor of family relationships, on "Current Views on the Family and the Delinquent," 7:30 p.m., Room 209 Home Economics South.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. G. L. Smit, assistant manager, Buffelsfontein Gold Mining Co., Ltd., Johannesburg, S. Africa, on "Gold Deep Mining in South Africa."

Jazz Club program by Cannonball Adderly Quintet, 8 p.m., Schwab Auditorium. Non-member tickets at HUB desk.

Saturday, Feb. 22

Harpsichord recital by Dr. Leonard Raver, 3 p.m., Schwab.

Varsity athletics: fencing vs. C.C.N.Y., 2 p.m.; rifle, vs. West Virginia, 2 p.m.; wrestling, vs. Navy, 8 p.m.

Lecture and discussion by Dr. Tom F. Driver, drama critic, *The Christian Century*, 3 p.m., Room 123 Chambers.

Sunday, Feb. 23

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Tom F. Driver, Union Theological Seminary, New York, "On Truth."

Artists Series program by "The San Francisco Ballet," 8 p.m., Recreation Building.

Monday, Feb. 24

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Dagobert de Levie, on "The Study Abroad Program."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. Kiyotsugu Ohji, on "Creep of Metals under Varying Stresses."

Reading of his poems by Kenneth Rexroth, 8 p.m., HUB assembly room, sponsored by Department of English.

(Continued on page six)

Lyons talk

Louis M. Lyons, curator of Nieman Fellowships at Harvard University for the past 25 years, will give a talk Friday, Feb. 28, at 7:30 p.m. in the HUB assembly room, sponsored by Kappa Tau Alpha, honorary journalism fraternity.

A veteran newsman, Lyons has been more recently a daily newscaster on radio and television in Boston. He has been a leader in the discussion of the role of the media of mass communications in the U.S. He has been editor of the professional journal, *Nieman Reports*, since 1946 and in it has dealt with the difficult problems faced in the daily reporting of the complex events of the times.

Film showing

The second issue of "Penn State Journal," a 28-minute film of events at Penn State during the last six months, will be shown to faculty and staff members next week in the HUB Assembly Room. The film will be run continuously from 10 a.m. to 5 p.m. Tuesday, Wednesday, and Friday, and from 10 a.m. to 3:30 p.m. Thursday. The film will be distributed to high schools, television stations, and to alumni groups soon.

Tragicomedy

Dr. Tom F. Driver, drama critic for *The Christian Century*, will speak on "Tragi-comedy in the New Drama of Europe and America," in the regular Saturday Lecture program. Saturday, Feb. 22, at 8 p.m. in Room 123 Chambers.

Fellowships

Deadlines for submission of fellowship applications in two areas are approaching rapidly.

Applications and supporting materials for the American Society for Testing and Materials Terminal Year Doctoral Fellowship must be in the Graduate School Office by March 13. This \$5,000 fellowship will be awarded to an outstanding nominee entering his final year of doctoral study in any area contributing to the science and knowledge of materials. In addition to the stipend, the University receives \$1,500 so that the fellow receives a grant-in-aid for tuition for four terms. The winner will be announced April 1.

The International Business Machines Fellowship for the University is open to a doctoral candidate in any major field offering the doctorate if the student's research problem is especially suited to analysis or treatment with a digital computer. Applications for this fellowship must be received in the Graduate School Office by March 1. The award winner will be announced April 1.

Further information about both of these fellowships may be obtained from the Graduate School Office, 101 Willard.

THE ARTS



ballet program

Tickets remain on sale at the HUB desk for the performance Sunday (Feb. 23) of The San Francisco Ballet in Recreation Building, beginning at 8 p.m.

The company will perform three ballets choreographed by Lew Christensen, its general director, and set to the music of Boccherini's "Sinfonia," Franz von Suppe's "Caprice," and Francois Esprit Auber's "Divertissement d'Auber."

houston symphony

Sir John Barbiroli will conduct the Houston Symphony Orchestra in its Artists Series program Sunday, Mar. 1, at 8 p.m. in Recreation Building. Tickets for the concert will go on sale to the public Thursday, Feb. 27 at 9 a.m. at the HUB desk.

The Symphony's program will include Berlioz's "Le Corsair"; "In a Summer Garden," by Delius; Vaughan Williams' Symphony No. 6 in E Minor; and Beethoven's Symphony No. 7 in A Major.

raver concert

Dr. Leonard Raver, Chapel organist, will present a harpsichord concert Saturday, Feb. 22, at 8 p.m. in Schwab Auditorium, assisted by violinist Joanne Zagst, flutist Overda Page, and cellist Leonard Feldman.

theatre

Shakespeare's "A Midsummer Night's Dream" will be the feature at Pavilion Theatre March 3-7, with a special matinee at 2 p.m., March 7. Frank Neusbaum directs the romantic comedy. Tickets will be available beginning Monday at the box office or may be reserved by calling 865-6309.

rexroth reading

Kenneth Rexroth, painter, critic, essayist, and noted poet will read from his poetry Monday, Feb. 24, at 8 p.m. in the HUB Assembly Room in a program sponsored by the Department of English.

Pioneer in poetry-jazz performances, Rexroth conducts a program on book reviews on a Berkeley, Calif., radio station and writes a regular column on cultural topics for the San Francisco *Examiner*.

He is the author of "In What Hour," "Beyond the Mountains," and a most recent book of poems, "Natural Number."

REGISTRAR REPORTS ON ENROLLMENT FOR WINTER TERM, 1964

Summary of Total Enrollment

Credit Summary

Total Enrollment		Undergraduate		Graduate	Special	Total
		Resident	2-Yr. 4-Yr.			
BY CREDIT						
Resident credit	22126	University Park				
Non-resident credit	1924	Full time	82 15105	795	34	16106
Total	24050	Part time	1 155	1667	279	2102
Res. non-credit	5443	Other campuses				
Non-res. no-credit	12103	Full time	1615 1866		21	3502
Total	17546	Part time	91 220	74	121	506
Grand Total	41596	Total	1789 17346	2536	455	22126

BY PROGRAM

Undergraduate	19135
Graduate	2668
Special	1454
Short Course	1534
Formal continuing	718
Informal continuing	8524
Correspondence	7563
Grand Total	41596

Resident Credit Summary

BY LOCATION			Undergraduate		Special	Graduate	Total	Non Credit	Grand Total
			2-Yr.	4-Yr.					
Allentown	94	Behrend	121	199	3	1	324	121	445
Altoona	680	DuBois	84	113	8		205	43	248
Behrend	445	Hazleton	102	139	3		244		244
DuBois	248	King of Prussia			21	55	76		76
Hazleton	244	McKeesport	185	222	6		413	172	585
King of Prussia	76	Mont Alto	55	61			116		116
McKeesport	585	New Kensington	95	24	28		147	166	313
Mont Alto	116	Ogontz	135	869	15		1019	155	1174
New Kensington	313	Schuylkill	49	145	18		212	20	232
Ogontz	1174	Seranton	117				117		117
Schuylkill	232	University Park	83	15260	313	2462	18118	4553	22671
Seranton	117	Wilkes-Barre	174				174	25	199
University Park	22671	Wyomissing	188				188	43	231
Wilkes-Barre	199	York	130	1		1	132	12	144
Wyomissing	231	Total	1789	17346	455	2536	22126	5443	27569
York	144								
Other (non-resident)	14027								
Grand Total	41596								

University Park Enrollment By Curriculum, College, Term

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
AG	5	137	14	5	2	1										149	15	16
AG SJ				7	97	18	16	111	19	25	102	28				401	22	42
For				1	50	6	3	7	56	7	45	28				203		20
Total	5	137	14	13	149	25	19	118	75	32	147	56				753	37	79
ARTS AND ARCHITECTURE																		
A & A	5	94	12	1	4			2		1	1	1				79	42	12
A Art				2	28	4	5	22	6	2	28	5				34	68	10
Arch		29	4	1	37	6	3	39	6	6	34	1	2	23	8	192	7	19
Arts				1	8	5	3	24	8	3	15	3				18	52	7
LArch				1	19	1	1	20	2	1	20	3				63	5	6
Total	5	123	16	6	96	16	12	107	22	13	98	13	2	23	8	356	124	56
BUSINESS ADMINISTRATION																		
Total	6	319	32	35	326	62	80	356	100	83	349	100				1763	85	184
EDUCATION																		
AEEd				6	20	12	14	36	13	11	29	13				20	134	15
Ed	15	401	83	11	3	4	3	2								77	445	52
EEEd				8	154	61	38	183	61	53	204	62				22	802	82
IArt				2	2	1	6	10	2	4	5	6				38		6
MuEd				2	3	5	4	13	5	3	12	8				28	27	5
RehEd				2	14	3	2	15	12	11	23	7				25	64	8
SecEd				16	151	33	58	247	63	68	225	60				437	484	92
SPA					11	4	4	6	2	1	2					2	28	3
ViEd									1	1						2		2
Total	15	401	83	47	358	123	129	512	159	152	500	156				651	1984	268

(Continued from page four)

THE University's long-range plan provides for a relatively large expansion at the Commonwealth Campuses from the present 4000 students to 10,000 by 1970. In this way Penn State will help to take care of the expected increase in demand for two-year programs and will provide students with a chance for an education or part of an education near home.

Unquestionably, there are some very able faculty members at the Commonwealth Campuses. Just the other day a student from the senior class told me that the best teacher he ever had was one at a Commonwealth Campus. It is true nevertheless that at the present time it is difficult to attract the more competent teaching staff to these campuses. By 1970, with the anticipated national shortages of teachers in a great many fields, it will be still more difficult. Providing both the facilities and faculty for a student increase of 150 per cent on these campuses will be no small undertaking.

A University committee which was asked to look ahead to Penn State in 1980 recently issued a report which included the following paragraph:

"Commonwealth campuses should be semi-autonomous units of the University although liaison in vital respects should be retained. Greater responsibility would devolve upon directors, acting largely in the role of college presidents but reporting to the President of the University."

It seems to me that some increased autonomy for the campuses is inevitable and that one area in which it will be exercised is the selection and promotion of faculty. It is a question how much of this semi autonomy can or will be developed by 1970. But I would predict that a trend in this direction will be evident by that time.

For some time it has been anticipated that Continuing Education will fill an increasingly important role at Penn State. It has been evident that as automation gradually brings more leisure time for more people, an increased demand for adult education can be expected. In the same way, as the so-called scientific revolution progresses, additional thousands in Pennsylvania will require retraining and retreading. Because, as someone has put it, "knowledge does not keep any better than fish," professional and technical people will find it increasingly difficult to keep up to date and will be reaching for help from Continuing Education programs. Even in the relatively short span of years until 1970 we can expect to move farther toward the situation where Penn State is in effect a University without walls or, to put it another way, where the entire state is its campus. One media that can be widely used in Continuing Education is television, both closed-circuit and broadcast.

Which leads to some comments on TV. Penn State is nationally known for its pioneering experimentation with closed-circuit television. As most of you know, for the past year or two courses originating at University Park have been televised in classes at our Altoona campus. With the expected allocation of Channel 3 at Clearfield for purposes of educational television a new Penn State station sometime this year will begin broadcasting and will gradually be linked with a half-dozen other stations in Pennsylvania to provide a state-wide educational television network. By 1970 we probably will be able to reach all of our Commonwealth Campuses by either closed-circuit television or broadcast television or both.

The teaching of college courses by televis-

ion has been controversial. But scores of carefully controlled experiments in the U.S. during the past decade have shown that television can be a most effective method of teaching. No one would suggest that all courses at Penn State be televised, nor even half of them, nor even a third of them. TV fits some subjects better than others. It frequently can be used not as a substitute for a professor but to improve his course or part of his course. Moreover, sometimes it will enable the professor to avoid repetition of the same course two or three times during the week. As someone has said, if television is used wisely it can "keep our best staff members from becoming classroom hacks who are ruined by the sheer repetition of classroom teaching." With the current growing shortage of qualified college teachers it is highly likely that television will be used more frequently to make available to large numbers of students televised lectures by inspirational professors.

I was interested to note that the distinguished team which evaluated our History department commented favorably on the department's "development of an outstanding closed-circuit television program devised to handle the large survey courses. Although the members of the evaluating committee came to the campus with misgivings concerning this part of the department's program, it became enthusiastic after having observed it in operation."

I THINK we can predict with certainty that by 1970 at Penn State more emphasis will be placed on self-education of students—or in other words that greater reliance will be placed on independent study. There are already signs pointing in this direction—such as the addition of honors programs in more departments and the use of our language laboratories. The trend toward more independent study is not only likely but, to my way of thinking, is highly desirable. Foreign scholars when they come to this country often are profoundly impressed by our failure to put more responsibility on undergraduates for their own education. At Penn State, some students, faculty, and administrators seem to think that the only way for a student to learn something about a subject is to take a course in it. It might be better to do less packaging of education in academic courses and to allow some students to go forward at their own pace. Lots of college lectures give information which students might acquire more effectively by reading. The committee which drew up the report on Penn State in 1980 proposed the establishment of a new "college for independent scholarship." The college would be reserved for highly talented and creative students who might benefit from a "greater degree of freedom in the utilization of the faculty and physical resources of the university." To permit flexibility, the students would be exempt from all regulations of the University Senate. There is much to be said in favor of this proposed college for a limited number of superior students who do not seem to fit the mold of any of the existing colleges.

Since much of what our students learn in many fields at Penn State will quickly become obsolete there must be constant renewal of what a student knows. It is especially important therefore that in college some way must be found to make all our students, not merely the highly superior ones, into "self-propelled learners with a zest for knowing." A host of experiments are being conducted throughout the nation in getting away from spoon-fed education. By 1970 the gaining of credit by examination prob-

ably more prevalent than now. Moreover, there is no reason why, for example, a professor (in some fields) may not start off a course by explaining its goals and providing basic information, allowing students then to read and study on their own, and meeting with the students at the end of the term for class discussions.

If there is one thing above another that is the key to a great university it is the faculty. What can be said about the faculty of Penn State in 1970? Francis Keppel, the Commissioner of Education, recently predicted that whereas 40 per cent of all college teachers possessed the doctorate in 1953, by 1970 the percentage will drop to less than 30. Indisputably the general quality of the Penn State faculty in recent years has been improving. It is to be hoped that this rising level of faculty competence will continue through 1970. Even before that time the shortage of personnel in many fields will provide able faculty with a seller's market. Salaries as a result will rise at Penn State but the same will be true of other colleges and universities. Already more than half of our faculty are on so-called "A" or forty-eight week contracts. Based on the current trend, the percentage of faculty on these full-year contracts will increase although this does not necessarily mean that a member of the faculty will be teaching all four terms.

It is not anticipated that the percentage increase in the number of faculty from now to 1970 will equal the percentage increase in students. When the long-range plan was drafted in 1957 the undergraduate student-faculty ratio was fifteen to one. We are now in the process of gradually increasing this ratio toward the figure forecast for 1970 of twenty-two to one. Indeed, we apparently are not far from this goal now. Present indications are that the predicted ratio of graduate students to faculty may become somewhat higher than the eight-to-one estimated for 1970.

I SHOULD like to mention one more major need although frankly I don't know whether anything can be accomplished by 1970. I am referring to the desirability of more regional interuniversity academic cooperation. We could profit from a regional grouping of some sort which could help to avoid duplication and small enrollments in the offerings of the various colleges and universities. No one university should try to teach everything. Frankly it's my opinion that, generally speaking, Penn State for a number of years has been trying to do too many things. The same statement is just as accurate when applied to other universities. I realize the tremendous pressures which a university is under, both from within and without, to add programs, but some sort of regional cooperation could help in resisting some of these pressures. Colleges have got together and arranged for exchange of facilities in the South, in New England, in the Midwest, and in the Far West. Why can't we accomplish something in this area? Only last month a clipping from the New York Times described what the West is doing. Let me quote a few sentences:

"More than fifty public colleges and universities in (thirteen states in) the West are about to begin a program that will insure the maximum use of their facilities. . . Each of the participating schools will take note of the courses that have vacancies, and students from other participating states may enroll in those courses at resident tuition

(Continued on page six)

REGISTRAR REPORTS ON ENROLLMENT FOR WINTER TERM, 1964

Summary of Total Enrollment

BY CREDIT

Resident credit	22126
Non-resident credit	1924
Total	24050
Res. non-credit	5443
Non-res. no-credit	12103
Total	17546
Grand Total	41596

BY PROGRAM

Undergraduate	19135
Graduate	2668
Special	1454
Short Course	1534
Formal continuing	718
Informal continuing	8524
Correspondence	7563
Grand Total	41596

BY LOCATION

Allentown	94
Altoona	680
Behrend	445
DuBois	248
Hazleton	244
King of Prussia	76
McKeesport	585
Mont Alto	116
New Kensington	313
Ogontz	1174
Schuylkill	232
Scranton	117
University Park	22671
Wilkes-Barre	199
Wyomissing	231
York	144
Other (non-resident)	14027
Grand Total	41596

Credit Summary

Resident	Undergraduate		Graduate	Special	Total
	2-Yr.	4-Yr.			
<i>University Park</i>					
Full time	82	15105	795	34	16106
Part time	1	155	1667	279	2102
<i>Other campuses</i>					
Full time	1615	1866		21	3502
Part time	91	220	74	121	506
Total	1789	17346	2536	455	22126

Resident Credit Summary

	Undergraduate		Special	Graduate	Total	Non Credit	Grand Total
	2-Yr.	4-Yr.					
Allentown	92		2		94		94
Altoona	179	313	38	17	547	133	680
Behrend	121	199	3	1	324	121	445
DuBois	84	113	8		205	43	248
Hazleton	102	139	3		244		244
King of Prussia			21	55	76		76
McKeesport	185	222	6		413	172	585
Mont Alto	55	61			116		116
New Kensington	95	24	28		147	166	313
Ogontz	135	869	15		1019	155	1174
Schuylkill	49	145	18		212	20	232
Scranton	117				117		117
University Park	83	15260	313	2462	18118	4553	22671
Wilkes-Barre	174				174	25	199
Wyomissing	188				188	43	231
York	130	1		1	132	12	144
Total	1789	17346	455	2536	22126	5443	27569

University Park Enrollment By Curriculum, College, Term

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
AC	5	137	14	5	2	1										149	15	164
AC SJ				7	97	18	16	111	19	25	102	28				401	22	423
For				1	50	6	3	7	56	7	45	28				203		203
Total	5	137	14	13	149	25	19	118	75	32	147	56				753	37	790
ARTS AND ARCHITECTURE																		
A & A	5	94	12	1	4			2		1	1	1				79	42	121
A Art				2	28	4	5	22	6	2	28	5				34	68	102
Arch		29	4	1	37	6	3	39	6	6	34	1	2	23	8	192	7	199
Arts				1	8	5	3	24	8	3	15	3				18	52	70
LArch				1	19	1	1	20	2	1	20	3				63	5	69
Total	5	123	16	6	96	16	12	107	22	13	98	13	2	23	8	386	124	560
BUSINESS ADMINISTRATION																		
Total	6	319	32	35	326	62	80	356	100	83	349	100				1763	85	1848
EDUCATION																		
AEEd				6	20	12	14	36	13	11	29	13				20	134	154
Ed	15	401	83	11	3	4	3	2								77	445	522
EEEd				8	154	61	38	183	61	53	204	62				22	802	824
IArt				2	2	1	6	10	2	4	5	6				38		38
MuEd				2	3	5	4	13	5	3	12	8				28	27	55
RehEd				2	14	3	2	15	12	11	23	7				25	64	89
SecEd				16	151	33	58	247	63	68	225	60				437	484	921
SPA					11	4	4	6	2	1	2					2	28	30
ViEd									1	1						2		2
Total	15	401	83	47	358	123	129	512	159	152	500	156				651	1984	2635

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
ENGINEERING																		
ActSp				3	66	8	9	73	11	8	48	19				243	2	245
AgE				1	14	2		8	2		4	6				36		36
AE		25	1	1	12	1		6	1	3	5		1	2	2	60		60
ChE				1	52	7	1	47	14	6	43	12				180	3	183
CE				1	38	10	6	14	39	10	13	43	20			194		194
EE				11	105	30	19	149	40	28	134	57				570	3	573
Engr.	15	598	46	9	19	3		3	11	2	14	6				685	5	690
EMch					8	1		3	11	2	14	6				45		45
ESc					18	2		2	11	1	14	1				48	1	49
IE				4	23	1	6	31	6	9	41	22				143		143
ME				5	67	8	11	73	14	6	66	36				285	1	286
SE									1			6				7		7
Total	15	623	47	35	422	73	57	423	129	72	382	208	21	2	2	2496	15	2511
HEALTH & PHYSICAL EDUCATION																		
PhEd	1	36	3	8	30	9	10	44	10	6	44	19				121	99	220
ReEd					5	1	2	10	1	1	13	7				31	9	40
Total	1	36	3	8	35	10	12	54	11	7	57	26				152	108	260
HOME ECONOMICS																		
Total	6	117	14	11	102	43	29	123	45	20	106	36				92	560	652
LIBERAL ARTS																		
AL				30	449	115	81	533	109	86	319	102				750	1074	1824
DDP				1	6											7		7
Journ				5	38	11	10	66	10	14	56	12				129	93	222
LMR					4	2	3	19	2	2	11	2				42	3	45
LA	46	834	99	12	3	3		2	1		1	1				463	539	1002
Psy				8	44	23	18	92	24	21	80	14				204	120	324
Total	46	834	99	56	544	154	112	712	146	123	467	181				1595	1829	3424
MINERAL INDUSTRIES																		
Cert				7	1			11	3	1	15	4				42		42
FT				4				13			2	5				24		24
Geog								5	1		5					11		11
GSc				1	13			14	1	4	13	11				55	2	57
MetEd				2	5	2	1	14	4	1	14	6				49		49
MnEc				4	13	4	8	21	9	3	17	21				95	5	100
MnI				1	2	1		7	3	1	3	1				19		19
MnE	3	66	3	5												73	5	78
MPE					4			1			2					7		7
Mng E				1	2	4	3	8	1		1	2				32		32
PngE				1	2	1	1	3	2	3	1	2				16		16
Total	3	66	3	15	52	13	13	97	24	14	73	52				413	12	425
SCIENCE																		
BioCh				1	16	1	2	12	4	2	6	3				33	14	47
Bot					6	2		6	8		3	3				24	4	28
Chem				2	21	10	8	44	9	3	15	10				103	19	122
Math				1	41	8	6	82	17	12	38	17				137	85	222
Med T				1	26	3	2	17	4	3	4	1				3	58	61
MicrB					18			10	2	4	13	1				17	31	48
Phys				2	30	12	5	40	13	6	23	12				135	8	143
PM				2	49	9	9	49	10	9	35	10				156	26	182
PMI																1		1
Sc	8	322	69	5	11	6	3	20	9	5	20	8				371	115	486
Zool				3	21	7	4	35	5	12	34	11				107	25	132
Total	8	322	69	17	240	58	45	317	73	56	191	76				1087	385	1472
DIVISION OF COUNSELING																		
Total	6	200	46	37	223	38	21	81	16	8	5	2				582	101	683
Total Bachelor's	116	3178	426	280	2547	615	529	2900	800	580	2375	856	23	25	10	9970	5290	15260
ASSOCIATE																		
2 Ag	1	7	1	3	8	3										22	1	23
2 HFS		38	3	1	15	3										55	5	60
Total Associates	1	45	4	4	23	6										77	6	83
Total Undergrad.																		
Stud., Univ. Pk.	117	3223	430	284	2570	621	529	2900	800	580	2375	856	23	25	10	10047	5296	15343

Distribution by Sex				Non-resident Summary				Graduate Students			
University Park	M	W	T	Correspondence	Credit	Non-Credit		Resident	Off Campus		
Two-year	77	6	83					212	1		
Four-year	9970	5290	15260					36			
Special	183	130	313		793	6770		89	1		
Graduate	2031	431	2462					292	18		
Total	12261	5857	18118					317			
Other campuses											
Two-year	1688	18	1706	Special	999			45			
Four-year	1503	583	2086	Graduate	105			171	1		
Special	86	56	142	In absentia	27			422	1		
Graduate	67	7	74	Formal Cont. Ed.		522		275	1		
Totals	15605	6521	22126	Informal Cont. Ed.		4811		529	4		
				Total	1924	12103		23			
						14027		51			
								2462	27		

Including 60-hour week

Penn State In 1970

By Dr. M. Nelson McGeary

(This paper was given at the recent Allenberry Conference of administrators.)

I WAS asked to do some guessing this morning on what Penn State would be like in 1970. Clearly, great changes are coming in higher education. How many of them will have arrived by 1970 is another matter; after all, 1970 is only six years away. But there is little doubt that Penn State in 1970 will be noticeably different from Penn State in 1964. I could talk for three or four hours on the changes that are likely to happen and the problems connected with them. Happily for both you and me I am limited to a maximum of thirty minutes.

Before I get into some predictions I want to mention two points. First, I am speaking as an individual and not for President Walker. He may disagree with some of the things I say. Second, prediction is always difficult but at the moment it is doubly so for Penn State—as a result of the recent law passed by the Pennsylvania legislature setting up a State Council of Higher Education. One of the Council's first tasks is to produce a master plan for higher education in the state (a need, incidentally, long overdue). Its recommendations may have an important influence on the legislature's decisions on how to spend its money for education. It is not out of the realm of possibility that this Council together with its parent body, the State Board of Education, will upset some of the predictions which we make here this morning. The decision which the state makes on what to do about junior colleges, for example, can have a powerful impact on the future of Penn State.

I think most of you know that in 1957 the University Development Committee (UDC) drew up a long-range plan for the University which included an estimate of the number of students in 1970. The Committee's plans and projections are under continuous review and revision, and since 1957 some adjustments have been made in these estimates. Generally speaking however the current guesses are close to those concocted in 1957.

The expected undergraduate body at University Park in 1970, you may remember, is 20,000 students. Right now we have 16,000. Remembering that more students return for their junior and senior years than was true a few years ago, we can expect some rise in the number of juniors and seniors at University Park as compared with freshmen and sophomores. At the present time juniors and seniors lead the other two classes by about 575.

In 1957 the estimate was that 4250 graduate students would be enrolled at University Park in 1970. The number now in residence, 2350, is approximately 12 per cent of the students on the campus. Present predictions are that the percentage will mount to 20—in other words we will be taking care of 5000 graduate students at University Park in 1970. This is a drastic and I might say expensive change—an increase of 100 per cent or a little more in a period of six years.

Some of the toughest decisions that must be made by this University are in the realm of admissions. The predicted big push of students clamoring to get into college beginning in the year 1961 is now upon us. In the fall of 1963 we turned down 1400 thoroughly qualified applicants; the number will be much higher this fall. The dimensions of the coming demands upon us can be gathered from the information that 40 per cent more youngsters will be graduated from Pennsylvania high schools a year from next June than were graduated this past year.

At the present time practically all girls admitted to Penn State were in the first fifth of their high school classes. If we continue to select those students who rank highest in high school and achieve the best grades on their College Board exams—which perhaps is the most logical way to do it—we can assume that in a few years almost all boys will also be first-fifthers. The question may then be asked whether we will be fulfilling one of the real purposes of a state university. Average students in Pennsylvania deserve a good college education. Many of the great men of this country have been average men. Should we therefore take some positive steps to diversify our student body? The University's Educational Policy Committee, in its recent report approved by the Senate, states that we "must develop and utilize the best means possible to admit those students who possess the capability for successful completion of a bachelor's degree program." But in the coming years we will be flooded with applications from boys and girls who possess such capability. Our problem will be to decide which ones of these capable students we admit. For example, will we hold to our present quota of two and a half men to one woman? A rough guess has been made that if we removed the quota and took only the top-ranking people, perhaps 60 per cent of our student body at University Park would be women.

SOME decision will also have to be made on how the 20,000 undergraduates at University Park will be distributed among colleges and departments. With the exception of the Engineering College, the University has not attempted to set quotas by colleges. Rather, the sizes of colleges have been determined to a considerable extent by the student applicants. Now, as we approach a period in which we will have many more highly qualified applicants than we can handle, will we be forced to institute a system of maximums in the different colleges and even in the different departments? These are difficult questions which I am not trying to answer but merely to pose for possible discussion later this morning.

Before going any farther, perhaps we should say a word about the overall budget picture. If any one thing more than another has impressed me since going over to Old Main about a year and a half ago, it is the almost overwhelming requests from the various colleges and departments for money. A very large percentage of them appear to be sound and highly desirable. They bring home the very real situation that Penn State's needs far exceed its present resources or those expected by 1970.

The UDC probably guessed wrong when they estimated that in 1970 the state government's share of our budget would be approximately the same as in 1955. Thirty-one per cent from the state and 11 per cent from the Federal government in 1970 were the predictions, but the scales are tilting farther than was expected. As we know, for example, there has been a steep rise in Federal money for research. By 1963 the state share of our budget had declined from about 39 per cent to 30 per cent and the Federal share had already risen to 19 per cent instead of the predicted 11 per cent for 1970. It is probably safe to say that the Federal government's share will continue to mount and perhaps by 1970 exceed the percentage contributed by the state.

We shall see changes in the Graduate School, which, as has already been mentioned, is scheduled to double in size by 1970. With 5000 graduate students at University Park, an increasing percentage of faculty will be expected to carry on productive research and will spend part of their teaching time in supervising graduate student research. As anticipated by the Educational Policy Committee, "A need for off-campus graduate study will grow, and graduate centers should be developed to the extent local facilities and University resources permit." The new King of Prussia Graduate Center is the first. Without doubt there will be others by 1970.

Another direction sign for the Graduate School is a recent statement by one of our department heads, "It is our hope that by 1970 neither credit hours nor courses will have much significance at the graduate level in our department—surely not for the doctorate work and probably not for the master's degrees."

It seems likely that by 1970 in the Graduate School the departments will have more autonomy. Ten or fifteen years ago the standards of some departments were such that a close and positive supervision by a central Graduate School office was justified. But the departments and along with them the Graduate School are growing up and it seems entirely reasonable that more responsibility will fall on the departments themselves for maintaining standards.

A boon to graduate study will be the centrally located Graduate Center which should be available by 1970. A further need is considerably more housing on the campus for graduate students.

(Continued on page five)

(Continued from page five)

rates, which are much lower. Both graduate and undergraduate courses are included. . . . The new program will permit students to shift around the thirteen-state system of colleges and universities. . . ."

Our own Senate Committee on Educational Policy in its current report states that "the University maintains close relations with other centers of learning in the state and encourages the development of cooperation in education and research within the Commonwealth." I am not saying that this statement is incorrect but I do feel that we need more cooperation in the area of avoiding duplication. I don't mean to lay the blame on Penn State, for after all it takes more than one university to have cooperation. The new Council on Higher Education could render a real service by working on this problem in their master plan for Pennsylvania. But cooperation should extend to more institutions than merely those within one state. Despite the difficulties, one of our goals could well be the formation of a cluster of institutions sharing facilities and programs and avoiding unnecessary duplication.

There are a dozen other forecasts for 1970 that might be mentioned. But because time is running short let me merely list six of them in brief fashion. Each of these will have some important impact on the University.

1. By 1970 our summer term probably will enroll as many students as any of the other three terms. At the present time summer enrollment is 58 per cent of that in the fall.

2. If the current trend continues, there will be by 1970 more interdisciplinary activities on the campus in the research and graduate areas. Current illustrations are the Institute for Research on Land and Water Resources or the Laboratory for Research on Animal Behavior, and the degree programs in Solid State Technology or in Biological Science. I heard Dean Schilling recently make an off-the-cuff guess that 15 per cent of our graduate students in 1970 will be interdisciplinary.

3. Without going into details it's safe to say that the space situation at University Park—classrooms, laboratories, and faculty offices—will be better in 1970 than in 1964. It is recognized that space presents an extremely serious problem at the present

time. But in view of the extensive building program which has been either authorized or planned, the problem clearly will be markedly eased in a few years.

4. Partly because much more Federal research money has been available for science and engineering and health and agriculture than for humanities and social sciences, many universities including Penn State have experienced an imbalance in research activities. How much will be accomplished by 1970 to improve the situation at Penn State is problematical. But the placing of more emphasis on research programs in the humanities and social sciences would hasten the development of Penn State into a truly great University.

5. There is no need to do more than mention the obvious fact that the new Hershey Medical Center, which may be graduating its first class by 1970, is bound to require some delicate adjustments in the next few years in the Penn State machinery.

6. It seems inevitable that by 1970 we shall see an expansion of Penn State activities in international affairs. I agree with the Educational Policy Committee which recently reported that "it becomes increasingly evident that the University must assume a greater role" in the international area.

These then are some of the things that we can expect at Penn State in 1970. Some of my predictions may be wrong and some of them may be disquieting to you. But in any over-all summary the future looks bright. One of the better departments in the University had this to say in its recent self-evaluation report, "The members of the department of _____ recognize that they are part of a . . . rapidly growing University where emphasis is being placed more and more on excellence."

Without wishing to end on a sour note I will venture one additional prediction. Having seen this University from two different viewpoints, I am fully aware that a good many faculty and a good many administrators frequently work a sixty-hour week (or more). Despite frequently heard predictions that the future will bring Americans more leisure time and that the thirty-hour week is just around a couple of corners, I presume that in 1970 plenty of University people will be among the small minority who will work sixty full hours each seven days.

CALENDAR —

(Continued from page one)

Tuesday, Feb. 25

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. Richard E. Low, assistant professor of economics, on "Is Marriage the Only Legal Merger?"

Wednesday, Feb. 26

Varsity athletics: basketball, vs. Gettysburg, 8 p.m., Rec Hall.

Thursday, Feb. 27

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

Fluid Mechanics Seminar, 4 p.m., Mineral Industries Auditorium. Enos J. Carlson, head, sediment investigations, hydraulic branch, Bureau of Reclamation, U. S. Dept. of the Interior, Denver, on "Sediment Hydraulics—Research for Engineering Design and Construction."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Lawrence H. Piette, Varian Associates, on "Application of Averaging Techniques to the Study of Rapid Free Radical Reactions."

Friday, Feb. 28

Talk by Louis Lyons, Nieman Fellowship curator, Harvard University, 7:30 p.m., HUB assembly room, sponsored by Kappa Tau Alpha.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Elso S. Barghorn, professor of biology, Harvard University, on "Earliest Evidences of Life."

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

Klaus Ihlenfeld discussion of his sculpture to be on display in Chambers Building gallery, 8 p.m., Room 101 Chambers.

DOCTORATES

Penn State was 19th among the nation's colleges and universities in the number of doctorate degrees granted for the 1960-61 period and 17th among universities in terms of the number of its graduates who acquired doctorates in that same period. Columbia University leads in the first category; C.C.N.Y. in the second.

faculty BULLETIN

Vol. 51, No. 31 Feb. 21, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Exhibit

International Business Machines Corp. has provided an exhibit of models of inventions of Leonardo da Vinci which are on display in the gallery of Hammond Building and will remain until March 5.

The 23 models were constructed by a foremost da Vinci authority, Dr. Roberto Guatelli and are supplied by the Department of Arts and Sciences of I.B.M. The exhibit has visited many of the outstanding galleries in the country and has attracted the attention of millions of people.

Among the models displayed are:

A steam gun, which discharged a projectile when water flowed into the barrel kept red hot by live coals. Some authorities believe it was capable of firing the projectile two miles.

A parachute made of linen.

An excavating machine, consisting of a large crane with pivoting arms which supported loading cages.

An improved printing press.

An air conditioning unit.

An ornithopter, or flying machine, consisting of a wooden frame, two huge wings, a series of ropes and pulleys, and a windlass.

A helicopter, a huge aerial screw run by clock-work.

The exhibit is actually the second prepared by Dr. Guatelli, who constructed the original models for the 1938 exhibition in Milan, Italy. During the war, they were completely destroyed by bombs in Tokyo and he was confined in a concentration camp. I.B.M. acquired the present exhibit in 1951.

Saturday lecture

Dr. Paul H. Elman, professor of moral theology at Seabury-Western Theological Seminary who will be the Chapel speaker Sunday, will also lecture Saturday evening on the subject, "New Accents in Contemporary Literature."

The lecture, one of the regular Saturday series sponsored by the Faculty Committee of the U.C.A., will be held in Room 123 Chambers at 8 p.m.

A member of the English faculty at Northwestern University for 12 years, he took his doctorate at Harvard in 17th-century English literature. After studying at Union and Seabury-Western seminaries, he became a priest in the Episcopal Church.

He is the author of "The Restoration of Meaning to Contemporary Life" and of a critical biography of Jeremy Taylor.

Colloquies

"Introduction to Analog Computer Techniques" is the title of the next College of Engineering Colloquy, to be given March 23 and 24 and it will include the theory of programming combined with actual experience on a modern analog computer.

Dr. William S. Adams, assistant professor of electrical engineering, is chairman and principal lecturer for this colloquy, which will be restricted to faculty members of the University Park Campus.

Another Colloquy, titled "Information in Engineering Practice and Teaching," will be held March 23-25 and will enroll engineering faculty members and librarians from each of the Commonwealth Campuses.

Engineering

Only three universities in the nation granted more engineering bachelor's degrees than Penn State during the 1962-63 academic year, the American Society for Engineering Education has reported.

Penn State graduated 579, Purdue 821, University of Illinois 779, and the University of Michigan 638. Following Penn State were Georgia Tech 544 and Drexel 516.

Brandow abroad

Dr. George E. Brandow, professor of agricultural economics, is currently in Austria lecturing at the Salzburg Seminar in American Studies.

He is lecturing on agriculture in a seminar titled "The American Economy and International Affairs," and will remain at Salzburg until March 8. He is the former president of the American Farm Economic Association.

Model U.N.

Eugeniusz Wyzner, counsellor of the Polish mission to the United Nations, and E. Olu Sanu, First Secretary of the Nigerian Mission to the U.N., will be featured speakers of the Second Model United Nations General Assembly which convenes today (Friday) at 7:30 p.m. in Schwab Auditorium.

The balcony of Schwab Auditorium will be open to faculty, students and the general public interested in observing the opening session.

Sixty U.N. delegations will be represented by various student organizations with some 300-400 students participating.

President Walker will address the opening session, followed by the two visiting U. N. delegates.

Four questions are to be discussed by the Model Assembly: disarmament measures which might follow the limited nuclear test ban treaty; the apartheid racial policy of South Africa; the U. N. Conference on International Trade and Development; and U. N. finances.

Throughout the sessions, the student delegates will endeavor to represent faithfully the positions which the respective governments have taken in the U. N.

Freshman class

Of the 3,675 students to be admitted as freshmen to the University Park campus this year, nearly 25 per cent will begin their studies with the Summer Term. Eight hundred and seventy-five will enroll in June for the first time and 2,800 in September.

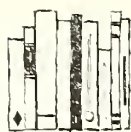
Last year, when about the same total number was admitted, only 353, or less than ten per cent, began with the Summer Term.

More than 30,000 applications for admission forms have been requested to date and 14,000 students have already made formal application for admission. About 4,000 of these are qualified but will be refused admission because of the University's limitations in resources.

Acceptances will be mailed March 2. Any students accepted after that date will be limited to those to be admitted for the Summer Term at University Park or for the Fall Term at one of the other Commonwealth Campuses where openings may still exist. The total number to be admitted to all campuses is expected to be 6,500, including 1200 who will be freshmen in associate degree programs.

The number of applications is about 33 per cent above that of a year ago and the number continues to increase by about 125 each day.

BOOKS



A book of lyric poems by Deborah Austin, associate professor of English, will be published March 2 by the University Press. The 70-page paperback was designed by Maxine Schein, art assistant in the department of publications.

The 43 poems in the book, which is titled, "The Paradise of the World," were composed over a period of some years and many have appeared in other publications, notably *The Yale Review*, *The Nation*, *The Atlantic Monthly*, *The Massachusetts Review*, *The Journal of General Education*, *Focus*, and *Pivot*.

Miss Austin joined the faculty in 1955, after teaching at Cortland (N.Y.) State Teachers College, Bryn Mawr, and Katharine Branson School in California. She was graduated from Smith College and received master of arts and doctor of philosophy degrees from Radcliffe College and Bryn Mawr, respectively.

* * *

Dr. Marilyn J. Conwell, assistant professor of Romance languages, at the Ogontz Campus, is author of "Louisiana French Grammar, Vol. I," with the editorial collaboration of Dr. Alphonse Juillard, of Stanford University. It was published by Mouton and Co., The Hague, Netherlands, in December as part of a new series, *Janua Linguarum, Series Practica*.

The book is the first complete linguistic description of the Acadian French dialect to be based entirely on tape recordings of primarily spontaneous, continuous discourse.

Dr. Conwell joined the Ogontz faculty on a part-time basis in 1956, became full-time instructor in 1958, and was appointed assistant professor in 1962. She obtained all three degrees from the University of Pennsylvania and taught in Philadelphia area schools before joining the Ogontz faculty. She developed and helped install the language laboratory there and is now coordinator of the laboratory as well as of the departments of French and Spanish.

* * *

Dr. Robert K. Murray's book, "Red Scare: A Study in National Hysteria," first published in 1955 by the University of Minnesota Press, will be republished in paperback by McGraw-Hill. Dr. Murray is professor and head of the department of history.

Records being set

Alumni Fund grows

ALUMNI continue to take an active part in the progress of Penn State through the Penn State Alumni Fund formed in 1953. By supporting essential projects which cannot be assisted by the University budget, alumni are able to retain an interest in the cultural and academic growth of the University.

The Helen Eakin Eisenhower Meditation Chapel, for example, would not have been possible without Alumni Fund help. This project received strong support in the early years of the Alumni Fund. Alumni contributions helped provide the furnishings for the Hetzel Union Building.

Other projects such as the Stone Valley Recreational Area have received favorable support from alumni: Pattee Library has been given over \$30,000 to make acquisitions (one gift made possible the purchase of 100 years of the *London Times*).

Also, numerous Class and Memorial Scholarship and Loan Funds have been set up through the Alumni Fund to help students with financial need complete their college education.

These are only samples of the kinds of projects which would go unsupported were it not for the generosity of individuals and groups receiving no return on their investment other than the satisfaction of helping to promote something worthwhile.

New record

More than 23,000 alumni have contributed nearly \$2,100,000 so far to Penn State through the Alumni Fund. During the past year a new record in dollar contributions was set when \$310,260.18 was received from 10,556 alumni, surpassing the previous year's record dollar total by almost 25%.

The 1964 Penn State Alumni Fund which began general solicitation with an appeal to alumni early in February, will concentrate its efforts on one major project, The Alumni Memorial Scholarship and Student Loan Program. This program, established in honor of alumni who gave their lives in defense of their country, brings to Penn State academically advanced students in need of financial help. In the past, 230 Alumni Memorial Scholars have been helped by this program. Today 71 Alumni Memorial

scholars are receiving aid. Many of them would have been denied a college education were it not for the generosity of alumni and friends of Penn State.

Recently, many corporations have shown an interest in the cause of higher education by affiliating themselves with the Corporate-Alumni Gift Matching Program. Begun by the General Electric Company in 1955, this program has met with popular response from many other companies. Under this plan an alumnus may have his gift to his university matched by the company. In 1963, more than \$50,000 was received through the Corporate Gift Matching Program and 58 companies out of 72 eligible made a contribution specifically for Penn State.

Undesignated gifts

Contributors to the Alumni Fund may designate a specific use for their gifts, but many do not. Undesignated gifts are most helpful since they can be used where the need is greatest. In recent giving, support has been greatest by unrestricted grants; other projects receiving considerable help are the Memorial Scholarship and Student Loan program, other scholarship and loan funds, the Levi Lamb Fund, University religious activities, Pattee Library, the All-Faith Chapel, and the President's Fund.

This support of Penn State by alumni has also been accompanied by a heartening response from faculty and staff members as well as friends, groups, and clubs who take an active interest in the welfare of Penn State. Gifts from faculty and staff members are warmly welcomed by the Penn State Alumni Fund as they in turn generate foundation and corporate support.

All contributions help strengthen the academic, cultural and social climate found at Penn State.

OUTSTANDING

Three of the four top students in the College of Veterinary Medicine at Cornell University are former Penn State majors in pre-veterinary medicine, including the first two highest. In all, 14 Penn State students are enrolled in the curriculum at Cornell and 60 former students are now in the School of Veterinary Medicine at the University of Pennsylvania.

PERSONNEL MATTERS



William F. Sjoborg, Jr., research associate in nuclear engineering, died Feb. 18 at the age of 38. A graduate of the University of Maryland, which also granted him the master's degree in physics, Sjoborg was one of the group which started up the University's nuclear reactor, while he was still an employee of Curtiss-Wright Corp. at Quakana.

Roy G. Ehman, associate professor of mineral technology, died Feb. 12 at the age of 62. He joined the faculty in 1948 as assistant professor of ceramics after serving 20 years as a ceramic engineer with the Pittsburgh Plate Glass Co. He received both bachelor's and master's degrees in ceramic engineering from the University of Illinois. In 1954 he transferred to continuing education services in the College of Mineral Industries.

Homer A. Weeden, associate professor of civil engineering, will be on leave until the end of the Spring Term engaging in photointerpretation research at Cornell University, as it applies to highway construction. He is working for his doctorate.

Dr. Frederick A. Matson, professor of archaeology and assistant dean for research in the College of the Liberal Arts, will be on leave during the first six months of this year lecturing and doing archaeological research in Northern Ireland, England, Egypt, the Middle East, and Greece. He will lecture at Queen's University, Belfast, and confer with archaeologists at Cambridge, Oxford, and the University of London. His research and observations in Egypt will be followed by studies in Lebanon, Jordan, Turkey, and possibly Pakistan as a followup to similar studies he has done in the past in Iraq, Iran, and Afghanistan. He will also visit Greek Islands to observe pottery work. His wife, Dr. Margaret B. Matson, is currently visiting professor at Beirut, Lebanon, College for Women.

Dr. Eugene C. Luschei, who has served on the faculty of the University of North Carolina since 1959, has been named visiting lecturer in philosophy for the Spring Term. He has been appointed associate professor of philosophy at Brown University for the Fall Semester. He received his doctor of philosophy degree in philosophy from Oxford University, Eng-
(Continued on page four)

Cobalt-60 facility being developed

THE University has recently received funds from the National Science Foundation which along with matching University funds will be used to construct a cobalt-60 facility addition to the existing Nuclear Reactor Facility. As is the case for the Reactor and other specialized equipment at the Facility, the cobalt-60 irradiation facility will be available for use by all faculty members within the University.

The gamma source will consist of 20,000 curies of radioactive cobalt-60 encapsulated in sixty-five, 10 inch long, stainless steel rods. The cobalt will be shielded in a large pool of water. The rods can be arranged in various configurations (cylinders, planes, straight lines) to meet the full radiation intensity and geometry requirements of the user. Many experiments will require fewer than sixty-five rods, and therefore, several smaller sources can be assembled to provide irradiation space for several experiments at any one time. High and low dose rate experiments can be carried out simultaneously in different regions of the pool. Dose rates up to 5×10^6 rads/hr will be available.

In addition to the irradiation space within the pool, there will be modest experimental working space around the pool. Two research laboratories are also planned, which will include several fume hoods, sinks and work benches. The cobalt-60 facility addition is currently being designed by a committee of interested University faculty members from several Colleges, in conjunction with the Department of Physical Plant Planning and Construction.

The committee solicits information from all other interested University faculty members pertinent to possible future uses, equipment or space needs, etc., at the facility which might have an effect on the final design of the facility.

To obtain additional information on the cobalt-60 facility, or to make specific suggestions, please contact Forrest J. Remick, director of the Nuclear Facility and chairman of the Cobalt-60 Facility Planning Committee (865-6351).

THE ARTS



paintings

Original paintings and on-the-scenes drawings by official U. S. Navy combat artists are now on display at the HUB gallery, sponsored by the Naval R.O.T.C. Department. The exhibit will continue only through Saturday.

shakespeare

Commemorating the 400th birthday of William Shakespeare, University Theatre will present "A Midsummer Night's Dream," directed by Frank Neusbaum, next week.

Performances will be given Tuesday through Saturday evenings at 8 p.m. at Pavilion Theatre and at a special matinee Saturday at 2 p.m.

Tickets are available at the Pavilion Box office or may be reserved by calling 865-6309.

houston symphony

Sir John Barbirolli will conduct the Houston Symphony Orchestra in works by Hector Berlioz, Frederick Delius, Ralph Vaughan Williams, and Beethoven in its concert Sunday at 8 p.m. in Recreation Building.

Tickets are on sale to the public at the HUB desk.

Sir John has directed the Symphony since the 1961-62 season, helping to elevate it to a position among the esteemed orchestras of the country. Today, playing about 100 concerts in Houston, the orchestra also carries on a limited tour.

The Beethoven work will be the Seventh Symphony and the Williams' symphony is No. 6, in E minor.

ihlenfeld exhibit

Klaus Ihlenfeld, noted sculptor, will discuss his work this evening (Friday) as a preliminary to the opening of his exhibit in the Chambers Building gallery. The talk will be given at 8 p.m. in Room 101 Chambers.

The exhibit includes 80-100 pieces of sculpture in bronze, iron, stone, and wood. It has been arranged with the cooperation of the Staempfli Galleries in New York.

hillel exhibit

An exhibit of documents, paintings, and other historical items of early Jewish life in America will be held at Hillel Foundation March 1-15. Admission is free and the public is invited. The exhibit includes 100 items loaned by such groups as American Heritage, Brown University, Jewish Museum, Smithsonian Institution, and Yale University.

PERSONNEL —

(Continued from page three)
land, where he was a Rhodes Scholar from 1951 to 1954 and was a part-time instructor in Trinity College.

Dr. Joseph H. MacNeil, native of Nova Scotia and graduate of McGill University, has been appointed to the faculty as assistant professor of poultry science. He received advanced degrees from Michigan State University and since 1962 has been senior research associate at Lever Brothers, Edgewater, N. J. He has also been a member of the faculties of the University of Connecticut and Michigan State University.

Oliver H. McDaniel has been named research assistant in the Ordnance Research Laboratory. He received his bachelor of science degree in electrical engineering from Clemson College and has been dynamics engineer for Grumman Aircraft Engineering Corporation since 1959.

Francis M. Dwyer, a teacher in the schools of Pittsfield, Mass., has been appointed research assistant in the Division of Instructional Services. He received the bachelor's degree from North Adams State College and master of science in education from Massachusetts State College.

Charles M. Wolfenberger, formerly associated with the Municipal Reference Library, Police Branch, Chicago, and other technical libraries, has been appointed librarian at the King of Prussia Graduate Center. He will be responsible for, in addition to library services, the development and maintenance of liaison with local industry and of a communications system between the Center and the University Park Library.

EUROPE FLIGHT

Two places are available for faculty members who wish a one-way jet flight passage to Europe with the Study Abroad participants. The plane leaves Kennedy airport, New York, via KLM DC-8, April 3 and will land at both Stuttgart, Germany, and Madrid, Spain. Cost of passage is \$135. Call Dr. Dagobert de Levie, 865-5334, if interested.

CALENDAR



Friday, Feb. 28

Discussion by sculptor Klaus Ihlenfeld to mark opening of his exhibit, 8 p.m., Room 101 Chambers. Exhibit in Chambers Building gallery.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Elso S. Barghoorn, professor of biology, Harvard University, on "Earliest Evidences of Life."

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering A.

Talk by Louis Lyons, curator of Nieman Fellowships, Harvard University, 7:30 p.m., HUB assembly room.

Saturday, Feb. 29

Lecture by Dr. Paul H. Elmen, Seabury-Western Theological Seminary, on "New Accents in Contemporary Literature," 8 p.m., Room 123 Chambers.

Varsity athletics: basketball, vs. Pittsburgh, 8 p.m.

Performance by Daniel and Dimitri, Israeli folksingers, Hillel Foundation auditorium, 8:15 p.m.

Sunday, March 1

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Paul Elmen, Seabury-Western Theological Seminary, on "The Unclean Spirits."

Artists Series program by the Houston Symphony Orchestra, 8 p.m., Recreation Building.

Monday, March 2

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dean D. H. McKinley, on "Economic Issues for the 1964 Presidential Election."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. M. C. Inman, on "Transmission Electron Microscopy of Solids."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics. Virginia A. Campbell, on "The 24-Hour Recall as a Method for Collecting Dietary Information from Groups of Older Persons."

Tuesday, March 3

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Bruce Netschert, National Economics Research Associates, on "The Economic Concept of Increasing Costs and Mineral Resources."

Opening night of Shakespeare's "A Midsummer Night's Dream," Pavilion Theatre, 8 p.m. Continues through Saturday, March 7.

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Thursday, March 5

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Cheves Walling, Columbia University, on "Solvent Effects in Free Radical Reactions."

Friday, March 6

College of Agriculture faculty meeting, 4 p.m., Room 109 Armsby.

Opening of E.I.G.L. (gymnastics) championships. Recreation Building.

Interlandia Folk dance, 7:30 p.m., HUB ballroom.

E POIETIKE

Faculty members who desire them may obtain free copies of the publication, "E Poietike," containing original works of students from virtually every college of the University and published by the Greek Week Committee, which planned activities for Greek Week, Jan. 26-Feb. 4 this year.

Terry Henderson, senior in education, and Dianne Nast, junior in education, were co-editors of the 16-page magazine, which was made possible by proceeds from Greek Week activities. Included are poems, pictures, short stories, and cartoons done entirely by students.

Interfraternity Council and Panhel are particularly anxious that faculty members see their product to evaluate the quality of the work the students have done. A request to the Faculty Bulletin editor, 312 Old Main, or a call to Terry Henderson, Phi Sigma Kappa fraternity 237-4939, will bring the magazine.

faculty BULLETIN

Vol. 51, No. 32 Feb. 28, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Computer workshop

Research faculty members, staff, and graduate students with no previous experience in computer programming are invited to take part in the Second Workshop in Basic Computer Programming to be conducted by the Computation Center Mar. 23-27.

By means of lectures and practice, the basic principles of FORTRAN as used on the IBM 7074 will be taught in sessions of five to seven hours daily for the five-day period.

A similar workshop was conducted just before Christmas and was attended by 113 persons.

Charles Forney, Jr., acting director of the Center, will be the lecturer for the workshop, which will consist of 10 lectures of 75 minutes each, given twice each morning. Practicums will consist of program coding and will make use of the IBM 7074.

Advance registration is now being accepted, up to a total of 126. A fee of \$4.50 for textbooks will be charged but computer use fees will be borne by the Center.

Further information may be obtained at Room 105 Boucke, 865-7597 or 865-7598.

Color films

Three color films, brought to the University through the cooperation of the government of India, will be shown Monday, Mar. 9, in the HUB assembly room at 7:30 p.m.

The films are titled "Dancing Feet," "Kathakali," and "Bharata Natya."

Sponsored by the department of theatre arts, the film program will run about one hour.

Television permit granted

The Federal Communications Commission has approved the granting of a permit to the University for operation of a television station on Channel 3 and the U. S. Office of Education has approved a grant of \$200,000 for use in construction of an antenna and other transmitter facilities for the station.

A grant of \$103,000 has been made by State Department of Public Instruction to help cover costs of facilities, construction, buildings, and equipment at the transmitter-tower site. These funds are from the \$970,000 appropriation approved by the Legislature for the Department in support of educational television to serve colleges, universities, secondary and elementary schools through a network of stations.

Through Channel 3, a total of 22 Central Pennsylvania counties will be served by the University, bringing educational broadcasting to an estimated 895,000 people and 707 institutions of learning.

Studios for the station will be located on the campus but the transmitter will be located along McGeorge Road, seven miles north of Clearfield.

The station is expected to be a main connecting link between Harrisburg and Pittsburgh in the Commonwealth Education Network, which will span the State and connect to networks in other states.

The network could also be used for continuing education programs.

Marlowe D. Froke, recently appointed director of broadcasting, says that broadcasting may start Sept. 1, although technical problems could delay the start until Jan. 1. A promise has been made to the Altoona-Johnstown Broadcasting Council, which has been organized in the interest of programs to the elementary and secondary schools of the area, that the hours of 10 a.m. to 3 p.m. will be allocated to programs of benefit to elementary and secondary schools.

Mook dinner

The Centre County Alumni Club will hold its annual dinner to honor the Penn State Teacher of the Year Thursday, March 12 at 6:30 p.m. in HUB dining room "A." Tickets may be reserved by calling Mrs. Nancy Densmore, 237-7008 by Monday.

Dr. Maurice A. Mook, professor of anthropology, will be honored. He received the Christian R. and Mary F. Lindback Award for Distinguished Teaching at the annual June Commencement Exercises in 1963. The award consisted of a plaque and \$1,000.

Richey winner

Dr. Herman G. Richey, assistant professor of chemistry, has been awarded an Alfred P. Sloan Foundation Research Fellowship, effective September, 1964, to enable him to carry on research in chemistry for a two-year period.

He is one of 94 young scientists in the U. S. and Canada who were named by the Foundation to receive the unrestricted grants for basic research. Only one other Pennsylvania college or university faculty member received a grant.

Candidates are nominated for the grants by department chairman or other scientists familiar with the nominee's researches and potential. The Fellow is not required to submit a "project" for approval; he may define the problem and determine the course of his research as he sees fit, and may alter its course as his investigations proceed.

Dr. Richey is a graduate of the University of Chicago and received advanced degrees from Harvard University. He was a National Science Foundation Postdoctoral Fellow in 1958-59 before joining the Penn State faculty.

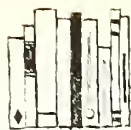
Vatican meetings

Four outstanding speakers, representing the Roman Catholic, Jewish, Orthodox, and Protestant faiths will discuss the two sessions of the Vatican Ecumenical Council April 12, 13, and 14 in Schwab Auditorium.

The speakers will be Msgr. George Higgins, director of the National Catholic Welfare Council, in Washington, D. C.; Alexander Schemmann, member of the faculty of St. Vladimir Seminary, New York; Rabbi Marc Tannenbaum, director of the department of Interreligious Affairs, American Jewish Committee, New York; and Dr. Heijo Oberman, Harvard Divinity School.

The three-day seminar is sponsored by the faculty committee of the University Christian Association. Each of the speakers will discuss the effects and implications of the Council meetings, then join in a panel discussion in which members of the audience will be invited to participate.

BOOKS



Lucille J. Strauss, chemistry and physics librarian, is co-author of "Scientific and Technical Libraries," published in February by Interscience Publisher, division of John Wiley and Sons.

The book is part of the Library Science and Documentation Series, of texts and monographs, Jesse H. Sherba, general editor. Co-authors with Mrs. Strauss are Irene M. Strieby and Alberta L. Brown.

Designed to be a guide to present practices in the organizational procedures and essential functions of a special library or information service, the book is a considerably revised version of a 1951 book by Mrs. Strauss titled "Technical Libraries: Their Organization and Management," which was sponsored by the Special Libraries Association. The earlier book was reprinted several times to meet the demand.

* * *

Denis Stevens, professor of music, is co-editor of "The Pelican History of Music," the second volume of which has just been published in this country. Volume I, which traces the history of music to the first half of the 15th century, sold over 45,000 copies in three editions and translations into Portuguese and German are now underway. Volume II covers the Renaissance and Baroque periods. A third volume will follow. Co-editor Alex Robertson is retired from a position as producer of music talks of the British Broadcasting Co. He has contributed to many of the leading music journals and is author of five books related to music history. Several other musicologists contributed to the volume.

Harrisburg

Associate degree programs in drafting and design technology and in electrical and electronics technology will be offered in Harrisburg, beginning with the Fall Term.

Edward Elias, director of the York Campus, will administer the programs, while continuing his work as director at York.

In the past, young men of the Harrisburg area have enrolled at the York Campus to obtain the technology programs, and the development of the new programs will help to alleviate crowding at the York Campus.

Piano concert

Thomas Richner, pianist of international acclaim, organist, musicologist, and educator, will give a concert Sunday at 4 p.m. in Schwab Auditorium in which he will feature the works of Mozart.

Currently professor of music at Douglass College, Rutgers University, Richner played before an enthusiastic but highly critical audience in Vienna a few years ago, gaining a tremendous reception for his Mozart playing where Mozart is king. He has been warmly received also in London, Paris, The Hague, Amsterdam, and New York.

A native Pennsylvanian, Richner studied piano at an early age, obtained his bachelor's degree at West Virginia University, continued his studies in New York and obtained master's and doctor's degrees from Columbia University. His awards include the Naumburg, the MacDowell, and the New York State Federation Awards.

The program will include: Fantasia in C Minor, K. 475; Sonata in C Major, K. 330; Sonata in B Flat Major, K. 281; Rondo in A Minor, K. 551; and Sonata in F Major, K. 533 and 494.

BOWLING

With the conclusion of student bowling leagues at the University lanes in Rec Hall, time is available for others for either league or open bowling. Monday and Thursday evenings are now open at 7 p.m. and Jordan Love, manager, is attempting to develop a league for couples for either or both evenings. Couples desiring to enter a league for these times should contact him at 865-2152. He will organize the league and inform those applying of the schedule. Open bowling is also available at 9 p.m. each Tuesday, Wednesday, and Friday.

SCHOLARSHIP

A scholarship fund has been established to honor the late Martha Conner, assistant librarian for the University 1909-1919, by the terms of the will of her sister Grace C. Whitemore. The proceeds of the invested funds will go to one or more undergraduate students each year who are planning to take graduate work in library administration. The recipients will be selected by the scholarship committee of the College of the Liberal Arts, including the Librarian.

CHARMBURY TALK

Dr. H. Beecher Charnbury, State Secretary of Mines, will speak on campus Monday, March 9, in Room 205 Armsby, on the subject, "Progress in the Abatement of Stream Pollution from Mine Waste," sponsored by the Wildlife Management Seminar and the Mt. Nittany Sportsmen's Club.

PERSONNEL MATTERS



Robert E. McCord, associate professor and director in continuing education in engineering, has been awarded an eight-week study grant to study the programs in England related to engineering continuing education. The grant was made by the English-speaking Union Technical Teachers Exchange Program, a foundation in Great Britain, and the grant study is administered jointly by the English-Speaking Unions of the Commonwealth, the U. S. and the Technical Institute Council of the A.S.E.E.

Dr. William T. Sanders, associate professor of anthropology, and Dr. Maurice A. Mook, professor in the same department, will be on leave for nine months and five months respectively at the University of Cusco, Peru. Dr. Sanders, as a Fulbright lecturer, will teach a course in cultural anthropology and engage in ethnological research in areas around Cusco. Dr. Mook will also teach and do research on the social ecology of Cusco.

Dr. Harold E. Nelson, associate professor of speech, will be on leave during the Spring Term in part to be in New York consulting with the research departments of the major broadcasting networks and the National Association of Broadcasters. He is seeking to determine areas of television programming which might be explored as a cooperative effort of the University and the networks.

Dr. Abbas Asgharian, assistant professor of Pahlvi University, Iran, has been appointed research associate in physics. He is a graduate of the Technical Institute of Abadan, Iran, and was granted the doctorate in physics by the University of Texas.

Mettler award

James W. Mettler, associate professor of mathematics at the Schuylkill Campus, has been awarded the "George Washington Honor Medal" from the Freedoms Foundation of Valley Forge for a talk he gave to his church group at St. Mark's United Church of Christ, Cressona, Pa.

The talk was titled, "The American Dream," and Mettler was cited for his contribution "toward a better understanding of the American Way of Life," during 1963.

GRANTS



R. W. Lindsay, metallurgy, \$9,000, Roll Manufacturers Institute, for study of influence of vacuum melting and pouring on the properties of Ni Hard cast iron.

N. J. Palladino, nuclear engineering, \$94,600, National Science Foundation, for construction of a Cobalt-60 Gamma Irradiation Facility.

Albert Haim, chemistry, \$23,800, National Science Foundation, for research on Redox reactions of coordination compounds in aqueous solution.

H. B. Conch, plant pathology, \$1,000, Vetsicol Chemical Corporation, to support research on turf-grass disease.

R. W. Lindsay, metallurgy, \$800, American Smelting and Refining Co., for cooperative program in metallurgy; also from The Carpenter Steel Co. \$800; Youngstown Sheet and Tube Co., \$800.

H. G. Marshall, agronomy, \$50, Durham Mill, Inc., for buckwheat research.

M. G. Sharma, chemistry, \$7,260, U. S. Public Health Service, for studies of the chemistry of alkaloids and related compounds.

M. R. Fenske, chemical engineering, \$5,000, Rohm and Haas, for research on oil additives.

B. A. Whisler, civil engineering, \$2,170, Union Equipment, Inc., for photointerpretation work.

F. W. House, vocational education, \$13,490, National Committee for Education in Family Finance, for 1964 program for Education in Family Finance.

E. F. Danielson, meteorology, \$22,386, Atomic Energy Commission, for study of mixing processes and radioactivity transport.

M. R. Fenske and **R. E. Hersh**, chemical engineering, \$20,000, Penna. Grade Crude Oil Association, for research on improvement and economic utilization of Penna. crude oil.

Scientist visits

Dr. Umberto Columbo, director of the Mining and Hydrocarbon Laboratories of the G. Donegani Research Institute, Novara, Italy, will give three public lectures next week and consult with members of the faculty of the College of Mineral Industries, in a visit sponsored by the American Geological Institute as part of its International Visiting Earth Scientist Program.

He will speak Monday at 4 p.m. in Room 104 Mineral Industries on "Recent Trends of Subsurface Geochemical Prospecting for Hydrocarbons"; Wednesday at 4 p.m. in the Mineral Industries Auditorium, on "The Evolution of Petroleum"; and Friday at 11 a.m. in Room 121 Mineral Industries on "Trace Metals in Petroleum."

The lectures are open to the public.

ITEMS OF INTEREST



The Arts

ADAMS, E. A., art, the design, visual concept, and typography of the Winter issue of "Everyday Art," on the theme of texture and form.

ALTMAN, HAROLD, art, 1963 issue, "Park with Figures II," acquired for permanent collection of the Milwaukee Art Center.

—prints exhibited at the Society of Washington Printmakers Exhibition at Smithsonian Institute, Bradley University National Print Exhibition, Northwest Printmakers Exhibition at the Seattle Art Museum, and the Black and White Print exhibition at the Philadelphia Print Club.

—two works reproduced in the February issue of "Art in America" in articles on Prints and on American Art showing in U. S. Embassies abroad.

ALTMAN, LINDA, art, an intaglio print, "Above Mrs. Dallas," exhibited in the national juried Black and White Print Exhibition at the Philadelphia Print Club.

CAMPBELL, W. P., music education, choral director for the Penna. Collegiate Chorus, March 23-25, at Wilkes College.

RAVER, LEONARD, music, organ recital, Cleveland Museum of Art, March 11.

Elected and Appointed

BIER, J. M., fuel technology, appointed general editor of series of monographs on fuel science to be published by the Elsevier Publishing Co.

—elected to membership in the American Flame Research Committee, of the International Flame Research Foundation.

DAMERSI, W. A., English, appointed chairman of the Membership Committee, American Business Writing Association.

HOWELL, B. F., JR., geophysics, elected Fellow of the American Geophysical Union.

KAYKA, ANDREW, English at Hazleton, judge for the finals of the dramatic and interpretation events at the National Forensic League Festival at Miami Beach, Fla.

KELLY, E. J., business administration, appointed educational consultant to the International Council of Shopping Centers.

KIEPLER, R. A., agricultural engineering, appointed by the A.S.A.E. to membership on the Committee on Physical Properties of Agricultural Materials.

PANOFSKY, H. A., meteorology, appointed chairman of the Air-Sea Interaction Committee of the American Meteorological Society-American Geographical Union.

—appointed member of a national survey group to study micro-mesometeorology facility for the National Center for Atmospheric Research.

—appointed member of a working group for boundary layer problems of the World Meteorology Organization.

WELLINGTON, A. M., counselor education, elected Senate Delegate to represent Student Personnel Association for Teacher Education at the 1965 American Personnel and Guidance Association Senate meetings in Minneapolis in 1965.

Lectures and Talks

BYRNER, C. S., agronomy extension, "Where Do Farmers Obtain Their Seed?" at the New Jersey Farmers' Week, Trenton, N. J.

COOK, J. S., continuing education in Science, "News from Brazil," before the DuBois Chapter, American Association of University Women.

DUBIN, S. S., continuing education, presentation of findings on "Continuing Education Needs of Engineers" before: Assistant Secretary of the Defense Dept. and his staff in Washington, D. C.; dean and department heads, College of Engineering, Columbia University, New York; deans of engineering schools, technical institutes, and directors of personnel in schools and companies in Boston area; dean of engineering and director of advanced studies at M.I.T.

GUEST, L. P., psychology, "Some Technical Considerations and Some Results of Studies of Stability of Attitudes," at a graduate seminar at the University of Chicago Graduate School of Business.

HAM, INYONG, industrial engineering, "Economics of Machinery," at a Cutting Tools for Metal Removal Seminar in New York.

HARINIFT, A. L., JR., physical education, the keynote address at the Governor's Conference on Safety Education at Lock Haven State College.

HASSLER, W. W., JR., American history, "The Real Lessons of the Spanish-American War," before the annual meeting of Seaboard and Blade Society.

KAUFMAN, J. J., economics, "The Effectiveness of Automation Plans," in a conference on "Union Membership and Automation Funds" under the auspices of the New York State School of Industrial and Labor Relations at Cornell University.

KNEIFF, F. W., marketing, "Innovation and the Marketing Concept," before the Wake Forest Management Institute at Winston-Salem, N. C.

MCKINLEY, D. H., business administration, "A Business Forecast for 1964," before a recent meeting of the West Branch Manufacturers' Assn. in Harrisburg.

PALLADINO, NUNZIO, nuclear engineering, "Careers in Nuclear Engineering" before students of Manhattan College, N. Y.

PEIKERT, F. W., agricultural engineering, "The Role of the State University in Advancing Sprinkler Irrigation," at the annual technical conference of the Sprinkler Irrigation Association at North Aurora, Ill.

PERKINS, H. W., Wyomissing, "Insuring Success in College," before the Women's Club of Wyomissing.

SIFARER, J. L., mechanical engineering, "Fluid Amplifiers," at a meeting of the American Society of Mechanical Engineers in Bellefonte.

TAMMEN, JAMES, plant pathology, "The Latest in Plant Disease Control" at the annual Ohio State Florists' Short Course at Columbus, Ohio.

—"The Pathogen-free Production of the Florist's Geranium" at the Ohio State University Geranium School, Cleveland.

TEST, A. E., clothing and textiles, "The Role and Quality Standards in the Marketing

(Continued on page four)

ITEMS —

(Continued from page three)

of Textiles and Apparel at the Philadelphia meeting of the American Society for Quality Control, Textile and Needle Trades Division.

Articles and Papers

- BLAIR, R. C., rural sociology, "Theory-Research: A Suggestion for Implementation from the Work on Florian Znaniecki," in the December issue of Rural Sociology.
- DEASY, G. F. and GRIESS, PHYLLIS R., geography, "Problems of a Contracting Mining Community—The Case of the Pennsylvania Anthracite Region," at meetings of the American Institute of Mining, Metallurgical, and Petroleum Engineers.
- FERRARO, A. J., HAI-SUP LI and S. WEISBROD, Ionosphere Research Laboratory, "Preliminary Measurements of Radio Wave Phase Interaction," in the April issue of the Journal of Geophysical Research.
- GERHOLD, H. D., forestry, on research results in forest tree improvement at the annual meeting, Society of American Foresters, Allegheny Section, at Baltimore.
- GIUSTI, J. P., resident instruction, "High School Average as a Predictor of College Success: A Survey of the Literature," in the winter issue of College and University.
- "Relationship of High School Curriculum Experiences to College Grade Point Average" in Educational and Psychological Measurement.
- GOTOLSKI, W. R., civil engineering, "Progress Report on Changing Asphalt Properties of In-Service Pavements in Pennsylvania," at meetings of the Association of Asphalt Paving Technologists.
- GINGERICH, KARL, chemistry, "Thermodynamic Properties of Selected Transition Metal Phosphides" at the Argonne Seminar on Groups V and VI Anions at Argonne National Laboratory.
- GROSSMAN, MORRIS, philosophy, "A Glimpse at Some Unpublished Santayana Manuscripts" in the February issue of the Journal of Philosophy.

CALENDAR



FRIDAY, MARCH 6

University Theatre production of "A Midsummer Night's Dream," Pavilion Theatre, 8 p.m.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Duncan Derry, consulting geologist, Toronto, Canada, on "Methods of Mineral Exploration under Various Climatic Conditions."

College of Agriculture faculty meeting, 4 p.m., Room 109 Armsby.

E.I.G.L. championships, 2 p.m. and 8 p.m. Rec Hall.

Interlandia Folk Dance, 7:30 p.m., HUB ballroom.

Saturday, March 7

E.I.G.L. championship finals, 7:30 p.m., Rec Hall.

Sunday, March 8

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. B. D. Napier, Yale Divinity School, New Haven, on "The Garden."

Piano concert, by Thomas Richner, 4 p.m., Schwab.

Reception to mark opening of Napier Exhibit, 8 p.m., HUB gallery.

Monday, March 9

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Robert G. Snider on "Commonwealth Industrial Research Center."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. G. R. Barsch, on "Elastic and Material Stability."

Talk by Dr. H. B. Charnbury, State Secretary of Mines, 7:30 p.m., Room 105 Forestry, on "Progress in the Abatement of Stream Pollution from Mine Waste," sponsored by the Wildlife Management Seminar and Mt. Nittany Sportsmen's Club.

Dances of India film, 7:30 p.m., HUB assembly room, sponsored by theatre arts department.

Lecture by Dr. Umberto Columbo, Novaro, Italy, 4 p.m., Room 104 Mineral Industries, on "Recent Trends of Subsurface Geochemical Prospecting for Hydrocarbons."

Tuesday, March 10

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Richard Stover, HRB-Singer, on "Voice-band-width Compression for Analog and Digital Transmission."

Wednesday, March 11

Lecture by Denis Stevens, professor of music, 8:30 p.m., HUB ball room.

Lecture by Dr. Umberto Columbo, Novaro, Italy, 4 p.m., Mineral Industries Auditorium on "The Evolution of Petroleum."

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

Thursday, March 12

Program by Meditation Chapel Choir, 3 p.m., The Chapel.

Biological Science Lecture Series, 3:55 p.m., Room 112 Buckhout. Dr. Robert Gaunt, director of Biological Research for CIBA, on "Hormones and Drugs."

Chemistry Colloquium, 12:30 p.m., Room 310 Whitmore. Dr. Roy A. Olofson, Harvard University.

Centre County Alumni Club "Teacher of the Year" dinner to honor Dr. Maurice Mook, 6:30 p.m., HUB dining room "A."

American Chemical Society, Central Pennsylvania Section, meeting 8 p.m., Room 112 Buckhout. Dr. Warren G. Meinschein, research associate, Esso Research and Engineering Co., on "Records of Ancient Life."

Friday, March 13

Lecture by Dr. Umberto Columbo, Novaro, Italy, 11 a.m., Room 121 Mineral Industries, on "Trace Metals in Petroleum."

Napier exhibit

Architectural drawings, photographs, and a 4-ft. by 8-ft. model of a conservatory of music and a jazz workshop, designed by Robert Jon Napier, assistant professor of architecture, will be on display March 8-March 22 at the HUB Gallery.

An opening reception will be held Sunday, March 8, at 8 p.m. in the Gallery.

faculty BULLETIN

Vol. 51, No. 33 March 6, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

THE ARTS



recital

Dale Livingston, senior in music education of State College, accompanied by Vicki Brown, also senior in music education, will give a recital this evening (Friday) at 8 p.m. in Schwab Auditorium.

A frequent soloist and choral singer in University productions, Livingston sang most recently on a State College Music Guild program. He will include works by Vivaldi, Purcell, Faure, and Ralph Vaughan Williams.

Miss Brown will also play Haydn's Piano Sonata in E flat major, No. 3. The program is sponsored by the department of music.

blue band

The 109-piece Penn State Concert Blue Band will play Sunday in Philadelphia before the Music Educators National Conference. The Band will be one of only two university organizations to perform before the music educators coming from all 50 states for the convention.

winner

Edwin W. Zoller, professor emeritus of art, won two prizes in the 54th Annual Exhibition of the Associated Artists of Pittsburgh, Museum of Art, Carnegie Institute in Pittsburgh.

The prizes, given for his oil painting No. 7-64, won the Museum of Art Purchase Award and the Jury Award for distinction, given in memory of Rachel McMasters Hunt.

Chapel Service

The combined Chapel Choir and Meditation Chapel Choirs will present a Choral Service of Lenten Music Sunday, March 15, at the regular Chapel Services at 10:55 a.m. in Schwab Auditorium.

Works of Leonardo Leo, Anton Bruckner, Benjamin Britten, and Bach will be sung by the Choirs, which are directed by Mrs. Willa Taylor and Samuel Gordon.

The Rev. Richard E. Wentz, director of faculty work, University Christian Association, will be in charge of the service and Dr. Leonard Raver will play the organ.

TV council

A broadcast council will be established for Channel 3, the University's educational television station, to help correlate the station's programs for educational purposes in elementary and secondary schools throughout Central Pennsylvania counties.

Agreement to establish the council was reached during a meeting of more than 125 school administrators from Central Pennsylvania last week. A steering committee was appointed to prepare articles of incorporation and a constitution for the council and the entire council will meet again April 9 to ratify the constitution.

Stevens conducts

Denis Stevens, professor of music, will record, as commentator and conductor, a 90-minute program entitled "Music in Shakespeare's England," at Vancouver, B. C., for the Canadian Broadcasting Corporation's radio and television services during the period between the Winter and Spring Terms.

He will also be in charge of two Mozart programs.

The visit will be in the third in six years for Stevens to Vancouver. He is a regular contributor to the CBC's programs, many of which are taped here with the help of WDFM.

PUBLIC SERVICE

Copies of the University's policy on public service are available on request from the Office of the Vice President for Development, Room 205-B Old Main.

The policy statement is especially appropriate to review at this time when faculty and staff members with public service motivation make known their desire to run for public office. Any faculty or staff members considering entering public service through seeking public office or in serving as a consultant or in an advisory capacity to any branch of the Commonwealth or its counties, townships, boroughs, etc., should review his obligations under this policy.

Osborn elected



Dr. Elbert F. Osborn, vice president for research, will become president of the 8,600-member American Ceramic Society at the annual meeting of the organization April 18-23 in Chicago. He is now president-elect

of the Society, which is devoted to the advancement of ceramic science and technology.

He succeeds Dr. Paul V. Johnson, deputy director of the Structural Clay Products Research Foundation of Geneva, Ill.

Dr. Osborn was one of the organizers of the Basic Science Division of the Society and served as the division's first chairman in 1951-52 and as trustee from 1957 to 1960. He was elected a Fellow of the Society in 1959, is a member of the Executive Committee, and was a member of the organization's Committee on Publications for five years, serving as chairman from 1960 to 1963.

He was president of the Mineralogical Society of America in 1961.

West materials

Paul West, associate professor of English and poet, novelist, and critic, has given some of his books, manuscripts, and letters to the Rare Books and Manuscripts Department of Pattee Library.

An exhibit of a selection of the materials is currently on display in the second-floor exhibit cases of the Library, including the original manuscript of the best-selling autobiographical book, "I, Said the Sparrow," and a copy of "Number Seven: The Fantasy Poets," his first published work.

A copy of the first edition of his new book, "The Modern Novel," is featured. This edition is sold out and a second will be published this year by Hutchinson University Library.

West is the author of nine books and three others are scheduled for publication this year, including a collection of poems, an allegorical novel, and a volume of the University of Minnesota Press Pamphlets Series, "Robert Penn Warren."

In 1962, West came to Penn State as visiting professor of English and was named to his present position last year. He had taught previously at Memorial University of Newfoundland and was a Guggenheim Fellow for a year before coming here.

SENATE MINUTES



MEETING OF MARCH 3, 1964

The University Senate met at 3:55 p.m. on Tuesday, March 3, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the January 14, 1963 meeting were approved as printed in the Faculty Bulletin for January 24, 1964. One hundred eighty-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (M. W. Isenberg), Ben Euwema (H. J. O'Brien), M. R. Fenske (J. H. Jones), R. G. Cunningham (C. C. DiIlio), Della Durant (Dorothy Moody), W. L. Ferrara (J. J. Cramer), Barbara Densmore (Irene Harms), E. L. Keller (T. S. Goas), Marjorie Knoll (Mildred Arnold), D. R. McClay (G. Z. Stevens), B. W. McCormick, Jr. (G. L. Sanders), H. J. Poorbaugh (J. W. Bergstrom), W. H. Powers (J. S. Cook), E. R. Quercy (E. C. Shuman), Helen I. Snyder (R. L. Lathrop), A. F. Tesi (Norma Walker), Antoinette Valentine (Patricia McLarsney), H. A. Weeden (T. D. Larson), and W. H. Wilson (E. L. Miller).

A letter was read from J. D. Ridge, Chairman of the Senate Committee on Committees, stating that B. G. Anderson would replace J. B. Bartoo on the Educational Policy Committee for the Winter and Spring Terms, 1964.

A letter was read from A. R. Gray, Chairman of the Senate Committee on Student Affairs, stating that Julie Cromitie as President of the Association of Women Students has replaced Vicki Caplan as a student member of the Committee on Student Affairs.

New Senators

A letter was read from Grace M. Henderson, Dean of the College of Home Economics stating that Elizabeth Ray would replace Marjorie East for the Winter Term 1964, Mary Dodds would replace Ruth Gates for the Winter Term, and Janice Chennault would replace Ruth Godfrey for the balance of the 1963-1964 academic years; and that W. J. McHale would serve for Elizabeth Ray while she is replacing Marjorie East.

A letter was read from F. R. Matson stating that J. M. Anderson would serve as his substitute from February 1 through July 31, 1964.

A letter was read from R. H. Jalms, Dean of the College of Mineral Industries, stating that R. L. Duquet would replace P. F. Lewis as an elected senator for the Spring Term, 1964.

REPORTS OF STANDING COMMITTEES

M. E. John, Chairman of the SENATE COMMITTEE ON CONTINUING EDUCATION POLICY, presented the report on UNIVERSITY POLICY ON CONTINUING EDUCATION which had been distributed

with the agenda as Appendix "A." He made a correction to the second line in paragraph four on page one, stating that Continuing Educational Services should be lower case instead of capitalized. He then moved that the report be approved as corrected. The motion was seconded. O. R. Mackenzie moved that the report be amended by striking out the words "who is a regular voting member of the executive or administrative committee of the College" in the paragraph on "Organization." The motion to amend was seconded and passed. The motion to approve the report, as amended, was passed. The report, as approved, follows:

UNIVERSITY POLICY ON CONTINUING EDUCATION

One fundamental purpose of The Pennsylvania State University is to serve those people who request or require continued education both in their personal development and in their constructive pursuits, to the extent that they can profit from such instruction and within the capabilities and resources of the University. To the end that such services be more effective the following statements on policy are made.

ORGANIZATION

The continuing education function of the Colleges shall be the responsibility of the dean of each College and administered by a designated officer.

Course content, instructional assignments, teaching methods, and all matters pertaining thereto are the responsibility of the Colleges.*

FINANCIAL POLICY

The University shall fully support continuing education (1) in its operational aspects through the budgets and personnel of continuing educational services and (2) in its academic aspects through the Colleges. This financial support is to be provided on an equitable basis with research and resident education.

FACULTY

Instruction, the proper supervision of instruction, and the conditions under which it is offered in the field are the obligations of the departments and the Colleges.† Matters of staffing for continuing education are to be arranged through the formally appointed officer in charge of continuing education of the College concerned.

Those faculty members who participate full-time or part-time in continuing education shall be evaluated and rewarded on an equitable basis with those who contribute to resident education and research.

* To the end that continuing education services shall be properly provided, it is the responsibility of the resident faculty and academic staff to make it a true extension of the areas in which they have professional competence, with due regard for such adjustments in manner of presentation as are necessary to comply with the circumstances and requirements of the students involved, and with the understanding that both resident instruction and continuing education are equally important parts of a single educational process. (Statement of Board of Trustees, 1958)

PROGRAMMING

The University shall undertake such variety of programs as is required to provide instruction to meet the needs of its constituency, not being limited to past patterns of action in administering and teaching. Experimentation and research related to the content of the program, to those who participate, and to the methods of instruction shall be encouraged. It is expected that only those programs will be undertaken for which the University can provide effective staff and operating conditions.

INTRA-UNIVERSITY COOPERATION

In order to utilize the interest and competencies of all academic units, the Administrative Committee on Continuing Education shall disseminate information on and encourage involvement in and commitment to the development and instruction of a variety of intra-University activities.

Each College should seek intra-University cooperation and should take the initiative in establishing such cooperation in those interdisciplinary areas in which it has the main instructional resources and competencies.

PROGRAM EVALUATION

When feasible, each program should be evaluated by the appropriate department(s) of the College(s) involved, in cooperation with Continuing Education Services. A standard evaluation is not mandatory for all programs. The Colleges are to keep abreast of developments in program evaluation and to apply the best available measuring devices to the end that programs will be improved.

RESEARCH

Research shall be encouraged on all aspects of continuing education. The interpretation and dissemination of the results of this research shall be encouraged. Interdepartmental, intercollegiate, and inter-institutional cooperation in research on aspects of continuing education is desired.

REVIEW OF POLICY

Periodic review of this policy shall be made to determine its effectiveness in developing and carrying out continuing education within the University.

† By virtue of its charter, and of subsequent acts of the Federal and State governments, The Pennsylvania State University is required to provide liberal and practical education in the several pursuits and professions of life, at low cost, and at convenient times and places, for all citizens of The Commonwealth who desire such instruction and who are capable of profiting from it. While all requisite academic programs are to be developed within the resident subject-matter departments of the University, much of the instruction can be most effectively presented only at places removed from the Campus and/or by techniques not ordinarily applicable to the classroom. (Board of Trustees statement, January 1953)

(The Senate minutes will be continued in next week's issue.)

BOOKS



Dr. Stanley Weintraub, associate professor of English, whose writings heretofore have been related largely to George Bernard Shaw, makes an entirely different literary effort with a book, "The War in the Wards," to be published by Doubleday in the fall.



Relying on his 1951-53 experience as Registrar and Admissions and Dispositions officer for the 10,000-bed United Nations Prisoner of War hospital in Korea, Dr. Weintraub tells the story of a little-known incident when there was an uprising of Communist prisoners of war in the hospital in 1952.

The story Dr. Weintraub tells is of the attempts by American medical officers to practice medicine under the extreme hardships of the barbed-wire enclosed wards, in what is described as "both a funny and a frightening tale of American ineptitudes and achievements."

Dr. Weintraub is also the author of "Private Shaw and Public Shaw," concerned with Shaw and T. E. Lawrence, published last spring; "C. P. Snow: A Spectrum," also published last year; and "An Unfinished Novel by Bernard Shaw," published in 1958. He is the editor of The Shaw Review. He was on leave last summer to hold a visiting professorship at the University of California at Los Angeles and to do research as the Liberal Arts Research Scholar. He is conducting research on Reggie Turner, novelist and wit of the late 1890s and early part of this century.

* * *

A book by Roy L. Hill, instructor at the University of Denver and former graduate student and instructor in the speech department here, has been published by Golden Bell Press, Denver, with a foreword by Dr. R. T. Oliver, head of the speech department, and with a dedication to Dr. Oliver and to Harold P. Zelko, professor of speech. "Rhetoric of Racial Revolt," is an anthology, the first of its kind to be published, and it shows the pattern of development in Negro thinking since the Civil War.

Income tax information

The Office of the Controller announces that the reduction for Federal withholding tax as the result of the Revenue Act of 1964 (reduction in maximum rate from 18% to 14%) will be reflected in the University employee's net salary, effective with the wage payoff of March 10 and all subsequent payrolls. No action is necessary on the part of the employee to effect this change.

Although a taxpayer will benefit from the lower tax rates by receiving more "take home" pay during 1964, he may be faced with a higher than normal tax bill at the end of 1964 or with an unexpected additional tax instead of a refund. This may result because the reduction in the withholding rate does not parallel the reduced income tax rates for 1964.

Taxpayers are advised to examine their estimated tax liability for 1964. They may find that the 1964 tax bill will be far greater than normal or that they will be required to file a declaration of estimated tax for the first time (if they have a gross income of \$10,000 and withheld taxes fall more than \$40 short of the final tax). If so, they may reduce the number of their claimed exemptions by filing an amended form W-4 at the office of the Payroll Department, Room 3, Old Main.

For those taxpayers who are already claiming no exemptions, the Accounting Department has initiated a procedure which makes it possible for an individual to arrange to have additional tax deducted from earnings. Anyone wishing to take advantage of this extra service should appear in person at the office of the Payroll Department, Room 3, Old Main.

York campaign

Earl D. Warner, president of Warner's Dairy, Inc., and a member of the Advisory Board of the York Campus, will head the campaign to raise \$350,000 for construction of an addition to the present campus building in York.

The campaign, which will begin this spring, will be the first attempt to raise funds in the York area since the University established a center there 25 years ago.

A student lounge, library, faculty office space, Continuing Education facilities, drawing room, chemistry and physics laboratory, and classrooms are among the accommodations to be provided in the addition, which is expected to be completed in late 1965.

Solicitation of York area industries, businesses, and individuals will be made during the campaign.

Ag open house

The College of Agriculture and the biological science departments of the College of Science will hold the annual open house program March 28 from 8 a.m. to 4 p.m. to acquaint high-school students and adults with developments in the agricultural and biological sciences.

Opportunities for men and women with a college education will be stressed, says Glenn O. Bressler, professor of poultry sciences, who is the program chairman.

Lecture-demonstrations and exhibits will be featured in the various Ag Hill buildings, and guides will be available to help the visitors. Some 3,500 attended last year, from all parts of the State.

CALENDAR



Friday, March 13

Lecture by Dr. Umberto Colombo, Novaro, Italy, 11 a.m., Room 121 Mineral Industries, on "Trace Metals in Petroleum."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. J. D. Mackenzie, professor of materials science, Rensselaer Polytechnic Institute, on "High Pressure Effects on Oxide Glasses."

Concert by Dale Livingston and Vicki Brown, 8 p.m., Schwab Auditorium.

Interlandia folk dance, 7:30 p.m., Room 302 Engineering A.

Sunday, March 15

Chapel Service, 10:55 a.m., Schwab Auditorium. Lenten music by Chapel and Meditation Chapel Choirs.

Monday, March 16

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Walter Wiegand, director of physical plant planning and construction, on "Buildings in Penn State's Development Plans."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. Dr. L. W. Hu, on "Effect of Hydrostatic Stresses on Plastic Flow of Metals."

Tuesday, March 17

Initiation and Banquet of Alpha Tau Chapter of Phi Delta Kappa. Education honorary. Initiation 5:00 p.m., Home Economics Auditorium; banquet, 6:30 p.m., HUB dining room "A."

Meeting of the faculty of the College of the Liberal Arts, 3:55 p.m., Room 121 Sparks.

Wednesday, March 18

Plant Pathology Seminar, 3:55 p.m., Room 202 Buckhout. Dr. H. L. Barnett, West Virginia University, on "Microparasitism." Dinner follows and discussion resumes at 8 p.m.

Winter Term classes end, 9:55 p.m.

Thursday, March 19

Mathematics Colloquium, 4 p.m., Room 109 Osmond.

PERSONNEL MATTERS



Dr. Donald W. Bleznick, associate professor of Romance languages in the department of Spanish, Italian, and Portuguese, has been granted a leave of absence for the Spring Term to do research in Spain on the theory and practice of letter writing in Spain in the 16th and 17th centuries. He has been given a grant by the American Philosophical Society to aid him in the study, which he will undertake at the National Library of Madrid and libraries in Barcelona and Seville. Among the documents he expects to study are letters of noted Spanish writers of the period.

Dr. Robert S. Brubaker, associate professor of speech, has been granted a leave of absence for the Spring Term to complete a manuscript for a book on the anatomy and physiology of the speech mechanism. He will spend some time at the Baugh Institute of Anatomy of the Jefferson Medical College.

Samuel A. King, assistant professor of history at the DuBois Campus, will be on leave during the Spring Term to pursue studies of the history and lore of the lumbering industry which flourished a half-century ago in Northern Pennsylvania. He will conduct taped interviews with retired woodsmen who can recall the lumbering industry and hopes to gather old photos also.

Mrs. Vila H. Rosenfeld, instructor in home economics education, has been named assistant professor of home economics education. She was appointed to the faculty in 1961.

U. S. MAIL

Pickup of stamped mail by the U. S. mail carrier (whether personal, business reply, or other mail already stamped) will be accomplished in those campus buildings where U. S. mail is delivered by a U. S. carrier, wherever a tray or box is provided at the point where mail is delivered and if it is properly marked. Instructions have already been provided to those responsible for mail sorting in each of the buildings in the proper marking of the container. The carrier will collect mail whenever he makes delivery.

PDK BANQUET

The annual initiation and banquet of Alpha Tau Chapter of Phi Delta Kappa, Education honorary, will be held Tuesday, March 17, with Dr. A. G. Clark, president of PDK International, as banquet speaker. The Spring Initiation will be held at 5 p.m. in the Home Economics Auditorium, and the banquet for initiates and guests at 6:30 p.m. in HUB dining room "A."

COLOR SLIDE

Charles H. Campbell, of Pennsylvania Furnace, will give an illustrated lecture on the Holy Land before the State College Color Slide Club Monday, March 16, at 7:30 p.m. in Room 101 Chambers. Paul Stevenson will be the judge for the monthly competition.

FACULTY EXHIBIT

Crafts and photography will be featured in a Faculty Exhibition scheduled for the Hetzel Union Building Gallery April 1-15. An opening reception will be held April 1 from 7 to 9 p.m. in the Gallery.

GRANTS



Thomas Wartik, chemistry, or C. D. Stahl, petroleum and natural gas, varied amounts, Shell Fellowship Committee, to continue support of fellowship in chemistry or establish fellowship in petroleum and natural gas. A similar fellowship in chemical engineering, directed by M. R. Fenske, may be continued or a new fellowship established in petroleum and natural gas.

R. W. Lindsay, metallurgy, \$800, Allegheny Ludlum Steel Corp., for the cooperative program in metallurgy.

W. C. Robinson, Bureau of Business Research, \$5,000, U. S. Dept. of the Interior, for Southern Laurel Highlands Recreational Project.

Leon Gorlow, psychology, \$6,571, U. S. Office of Education, for study of personality factors and conformity behavior.

F. W. Peikert, agricultural engineering \$330, Country Belle Cooperative Farmers, for studies of purification of water supplies.

Norman Davids, engineering mechanics, \$15,000, U. S. Army, for theoretical analysis of internal blast waves in spheres.

P. T. Baker, anthropology, \$254,123, U. S. Army Medical Research and Development Command, for a biocultural study of human adaptation to environmental stress with special emphasis on altitude and cold in Peru.

M. R. Fenske, chemical engineering, \$2,500, Hercules Powder Co., an unrestricted grant to the department.

M. R. Fenske, chemical engineering, varied amounts, Esso Research and Engineering Co., for a postdoctoral fellowship.

H. L. Lovell, mineral preparation, \$18,264, U. S. Public Health Service, for research on sewage effluent purification by interface phenomena.

Maurice Shamma, chemistry, \$7,260, U. S. Public Health Service, for studies of the chemistry of alkaloids and related compounds.

faculty BULLETIN

Vol. 51, No. 34 March 13, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

PERSONNEL MATTERS



Donald C. Jones, director and professor of mineral industries continuing education, will retire March 31, completing 31 years during which he developed and taught courses in mining and processing for the men who worked the mines, trained local personnel as teachers, and maintained close contact with the industry. He will be editor of a new periodical, "Coal Mining and Processing," with the publishing firm, Maclean-Hunter, in Chicago. Author of five books, Jones was editor of about 150,000 volumes of texts developed and written by staff members and used not only in University programs but by other colleges in the U. S. and 20 foreign countries. He was graduated from Carnegie Tech and also received a master's degree there. He was associated with coal mining operations in Western Pennsylvania and spent two years with the U. S. Bureau of Mines before coming here in 1933.

* * *

Irma H. Gross, professor emeritus of Michigan State University, has been named distinguished visiting professor of family economics and home management for the Spring Term. She will teach a graduate seminar in family economics and home management and lecture in other classes on the philosophy of home management. Head of the department of home management and child development at Michigan State, Miss Gross is co-author of four books on home management.

Lupton named

Charles Lupton, for the past year director of the University's development fund, has been appointed to a new position as director of special projects.

In the new role, he will keep University officials informed concerning Federal funds that are made available in support of programs in which the University is qualified to participate. Many of these funds are made on a state or local matching basis.

He will also help to expedite completion of arrangements to make these funds available.

A 1940 graduate of the University, Lupton came a year ago to the University from Philco Corporation, Philadelphia, where he was manager of training and development.

Colloquies

Speakers for the banquets next week for the two Dean's Colloquies in engineering have been announced.

Monday, at 6:30 p.m., in the HUB dining room "A," the speaker will be A. I. Katz, director, education and training, Electronics Associates, Inc., Princeton, N. J., speaking on the subject, "Introduction to Analog Techniques." Attendees at this banquet will be those participating in the colloquy on analog computer techniques.

Tuesday, also at 6:30 p.m. in HUB dining room "A," engineering faculty members and librarians from each of the Commonwealth Campuses will hear Dr. R. W. Scott, manager, technical information division, Esso Research and Engineering Co., Linden, N. J., speak on the subject, "Putting Information to Work in an Industrial Research and Engineering Co."

Although reservations are desired for both banquets, tickets may be purchased at the door at \$2.75 each. Reservations may be made by calling 865-7641, by March 20.

Japan print

Dr. I. C. Hisatune, associate professor of chemistry, has presented a four-panel, block-print Japanese screen to the University. The prints have been framed as a four-section screen and are, at present, in the offices of the dean of the College of Arts and Architecture.

The prints were designed and executed by Atsumi Taido, Japanese printmaker and a calligrapher for 32 years. They are unusual in their large size and were designed as sliding doors for a Japanese home.

Dr. Hisatune brought the prints to the U. S. about 18 months ago when he returned from a meeting in Japan.

Commencement

Bachelor's degrees will be granted to 521 students in Commencement Exercises Sunday at 2 p.m. in Recreation Building, master's degrees to 96, and doctor's degrees to 38.

Members of the faculty participating in the academic procession will meet under the south balcony in Rec Hall at 1:45 p.m. Other members of the faculty are invited to attend, with their wives, and seats will be reserved for them on the main floor.

A total of 29 students will be graduated with honors, including three with highest distinction, nine with high distinction, and 17 with distinction.

Military commissions will be granted to 25 seniors, 17 as second lieutenants in the U. S. Army Reserve, seven as second lieutenants in the Air Force Reserve, one as ensign in the Navy Reserve, and one as ensign in the Navy.

Bachelor's degrees will be granted to students enrolled in the several colleges as follows: Agriculture, 33; Arts and Architecture, 10; Business Administration, 66; Education, 88; Engineering, 69; Health and Physical Education, 7; Home Economics, 25; Liberal Arts, 157; Mineral Industries, 9; Science, 57.

Master of arts degrees will be awarded to 17, master of business administration to 6, master of education to 24, master of engineering to one, and master of science to 48. Ten doctor of education and 28 doctor of philosophy degrees will be granted.

Niebuhr

Dr. Nelson Manfred Blake, Maxwell Graduate School of Citizenship and Public Affairs, Syracuse University, will be principal lecturer for a one-day conference on the subject, "Reinhold Niebuhr and the Use of History," to be held April 2 in afternoon and evening sessions.

Designed for historians, political scientists, and sociologists, the conference was made possible by a Danforth Foundation grant.

Dr. Blake is author of "A History of American Life and Thought."

Invention

An invention by Francis P. Finlon, of the Ordnance Research Laboratory, and a former Laboratory staff member, Edward Dawson, is now "in condition for allowance" in the U. S. Patent Office. A secrecy order issued Nov. 16, 1960 requires the withholding from issue of the patent during such period as the national interest requires. A paper patent will be granted when the order is removed.

SENATE MINUTES



MEETING OF MARCH 3, 1964

(Continued from last week)

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." He asked that under Item I.A.4, Line 3, number 187 (proposed new course Latin 436) be deleted. He moved adoption of the proposals listed under Items I.A and I.B with number 187 being deleted. The motion was seconded and passed. The complete report is on file in the office of the secretary.

H. F. Dickson, Vice Chairman of the SENATE COMMITTEE ON LIBRARY, presented the corrected report which had been distributed at the meeting. He explained that item three of the original report which had been circulated with the agenda as Appendix "C" had been withdrawn and that item one had been reworded. He moved adoption of the resolutions as follows:

1. Resolved as a matter of educational policy, the University Library should be given high priority in the University development plans.
2. That high priority be given to the provision for a permanent solution to the housing of the working libraries of Agriculture, Chemistry and Physics, Mineral Industries, Home Economics, and Engineering and that a proposed addition of a Science Library Building be given top priority.

The motion was seconded and passed. President Walker stated that we need to make a study of the long range plans of our libraries, regarding books, buildings, communications systems, and branch libraries. In the next few days he will assign the problem to a committee.

J. D. Ridge, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting concerning an AMENDMENT TO THE BY-LAWS AS THEY RELATE TO THE TERM OF THE CHAIRMAN OF THE SENATE COMMITTEE ON ATHLETICS. This report contained a recommendation to amend Article II, Section 4 of the Senate By-Laws as follows:

At the end of Section 4, add as an additional sentence:

The Chairman of the Senate Committee on Athletics is exempted from the above requirements to the extent that he may serve as Chairman of that Committee for a maximum of twelve years, and that he may be reappointed annually within this twelve-year limit even though he does not continue as a member of the Senate. He must, however, be a member of the Senate at the time of his initial appointment.

He stated that the report will lie on the table for action at the next meeting of the Senate. The complete report, including the report of the subcommittee is as follows:

Report of the Senate Committee on Committees

SUBJECT: Recommendations for an Amendment to the By-Laws of the Senate as they refer to the term of the Chairman of the Senate Committee on Athletics.

1. Attached is a report of a subcommittee of the Senate Committee on Committees on the problems produced by the four-year term of the Chairman of the Senate Committee on Athletics. This report recommends (See recommendations 3 and 4 on page 2 of the attached document) that the Senate By-Laws be amended to permit the Chairman of the Committee on Athletics to be reappointed annually to that position for a maximum term of twelve years and that the Chairman be eligible for reappointment (though not for original appointment) even if he does not continue to be a member of the Senate. With this recommendation and with the arguments presented in support of it, the Senate Committee on Committees is in full agreement.
2. The subcommittee also makes two other recommendations (numbers 1 and 2 on page of the attached document) which would govern the procedures of this committee and which it proposes to put into effect unless there should be objection from the Senate.
3. The Committee on Committees, therefore, recommends the following amendment to Article II, Section 4 of the Senate By-Laws: At the end of Section 4, add as an additional sentence:
The Chairman of the Senate Committee on Athletics is exempted from the above requirements to the extent that he may serve as Chairman of the Committee for a maximum of twelve years and that he may be reappointed annually within this twelve year limit even though he does not continue as a member of the Senate. He must, however, be a member of the Senate at the time of his initial appointment.

Report of the Subcommittee to the Senate Committee on Committees

Concerning the Chairmanship of the Senate Committee on Athletics

INTRODUCTION

In accordance with your instructions, we have examined Article II, Section 4 of the Senate By-Laws as it affects the role of the Chairman of the Committee on Athletics. That section provides that "A member may not serve as a Chairman of a standing committee for more than four consecutive years." It does not provide for any exceptions.

That an exception may be desirable in the case of the Committee on Athletics came first to our attention in the "Comments and Recommendations for the Good of the University" by the President at the Senate meeting on April 2, 1963. Corroborating statement about the exceptional role of the chairman of the Committee on Athletics were subsequently heard from the present chairman of that committee and from the Director of Athletics.

DUTIES OF COMMITTEE ON ATHLETICS

The duties of the Committee on Athletics go beyond the formal charge in the By-

Laws, which provide in Article II, Section 2(c) that,

The Committee on Athletics shall bring before the Senate recommendations dealing with policies governing the athletic programs of the University as they relate to the educational functions of the University. The Committee, with the assistance of the Registrar, shall determine the eligibility of individual players and grant approval of schedule for all athletic contests.

At the invitation of the Director of Athletics, all members of the Committee on Athletics serve on his Athletic Advisory Board, where they are presumed to represent the faculty. (Others are invited to represent trustees, students, and alumni.)

In addition, the Chairman of the Committee on Athletics is regularly appointed by the President as faculty representative of the University to the National Collegiate Athletic Association and other associations.

EFFECT OF LIMITATION OF TERM

The ability of the Committee to discharge the responsibilities stated in the By-Laws does not seem to be unduly affected by the limitations on terms stated in Article II, Section 4. However, its effectiveness in the supplementary roles mentioned above may be seriously reduced.

It is important to the maintenance of a responsible and orderly athletic program that there be no abrupt changes in the constituency of the Athletic Advisory Board. Intercollegiate athletic commitments are made several years in advance and it is desirable that at least some members who participated in decisions should observe the ultimate outcome.

Of more importance is continuity in national representation. The Director of Athletics and the Chairman of the Committee on Athletics believe, and we concur, that it is in the interest of the University to have the faculty representative to the several athletic associations serve for terms longer than the four years we now permit.

POSSIBLE REMEDIES OUTSIDE SENATE

The President and the Director of Athletics could have formulated solutions to these problems without seeking the counsel of the Senate, by appointing faculty representatives to the athletic associations and to the Athletic Advisory Board without regard to the constituency of the Senate Committee on Athletics. We understand that their discretion in this matter is eliminated in a proposed Constitution for the Athletic Advisory Board (expected to be approved by the Trustees soon) which formalizes the roles described above. Henceforth, the members of the Committee will automatically become members of the Athletic Advisory Board and their chairman, the faculty representative to athletic associations.

RECOMMENDATIONS

Consistent with the changing roles of the Senate Committee on Athletics, we make the following recommendations:

1. That all members of the Committee on Athletics be members of the faculty at the time of their appointment.
2. That deliberate effort be made to limit

- replacements to one member per year.
3. That the Chairman be eligible for re-appointment annually up to a maximum term of twelve years (instead of four, as presently).
 4. That the Chairman be eligible for re-appointment (but not for original appointment) even if he does not continue to be a member of the Senate.

Two of these recommendations could be adopted as procedural guides within the Committee on Committees, but the last two recommendations require changes in the By-Laws.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker commented on the approval of two new junior colleges in Pennsylvania and the probability that a large percentage of the graduates of these colleges will want to transfer to Penn State as juniors. He stated that some kind of admissions system must be set up for handling the large number of applicants transferring as juniors.

President Walker spoke of the growth of the University and the need for reassignment of authority and responsibility. He felt that the University Senate needed to be reorganized and reduced in size. With the use of slides Mr. Walker explained the role of the University in the educational system of Pennsylvania.

NOTE: Copies of the budget request were available for the members at the close of the meeting.

The next regular meeting of the University Senate will be on Tuesday, April 7; the agenda will be distributed on March 24, 1964. The meeting adjourned at 4:47 p.m.

Robert G. Berwenter
Secretary

RENT-A-CAR

The University has arrangements with the Avis Rent-a-Car System whereby academic staff members may apply on an individual basis for a 20% discounted credit card. Those wishing to obtain a credit card should apply to Mr. R. J. Arena, District Sales Manager, 250 Mt. Lebanon Blvd., Pittsburgh 34, Pennsylvania, giving name, address, and age. A short delay may be experienced before the card is obtained.

MINORS

University departments which employ minors, on either a full-time or wage payroll basis, are advised to review the provisions on the employment of such persons.

The minimum age for employment by the University is 16 but any minor under 18 years of age is required to obtain an employment certificate, regardless of the length of time he will be employed. The certificate is issued by the student's high school and is not difficult to obtain.

Until the minor reaches 18 or terminates, the University's Employment Division retains the certificate, at which time the certificate must be returned to the minor's high school.

Further questions concerning the problem will be answered if a call is made to 865-7641.

Research Grants-In-Aid

Applications for grants-in-aid for research from the Central Fund for Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. E. F. Osborn, Vice President for Research. Applications should be filed with the Assistant Dean for Research of the College, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$400; in a few instances grants are made for larger sums to meet special needs. The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

Deadline nears

Faculty Aide Scholarships

Dr. Will E. Mason, professor of economics, and Dr. Eugene T. MacDonald, research professor of speech and hearing, are two among many faculty members who enthusiastically endorse the Faculty Aide Scholarship Program.

As the name implies, the faculty is aided in its research, teaching, or other activities by undergraduate students of considerable promise who may spend about 50 hours in a ten-week Summer Term performing work for the faculty member while enrolled as a regular student. For this, they receive \$100, and much more.

Last summer a total of 81 men and women students had scholarships, 39 as teaching aides, 42 as research aides. The summer before there were 70. Two case histories may serve to illustrate what happens to the students.

A young man enrolled in one of Dr. Mason's economics classes, a junior who had not yet selected a major field, showed an obvious capability in subjects in which he was particularly interested, but sometimes failed to work very hard in others. His record, however, was good enough to justify a Faculty Aide Scholarship and especially so because he did well in the economics course. He was married and needed some money to make ends meet, so Dr. Mason had him do bibliographical work and proofreading to help finish up a research project.

"As a result, he not only did a fine job for me, but the experience so excited him that he decided to major in economics and earned an excellent record in his senior year," Dr. Mason relates.

"He was graduated and today has one of the best jobs in government work in economics for which he could qualify with a bachelor's degree.

"This was a fine experience in itself for both of us, but I think the extra contact he had with the research I was doing was enough to spark a

real interest and desire to do well in other subjects too."

Dr. MacDonald cites the experience of a coed who helped him by doing primarily library research which he used in preparing a longitudinal study of the development of sensory motor and articulatory functions in children.

"She went far beyond the assignment I gave her," Dr. MacDonald says, "and became 'involved' with the project. She explained later that her enthusiasm for the subject matter of neurological disorders grew to the point that she bought a book, on her own, on the subject of strokes and is seriously thinking of entering the field of neurological disorders after completing graduate studies."

Other faculty members have had similar experiences, emphasizing the value of the scholarship program not only by its help to the faculty member in research or teaching and to the student in a small monetary way, but by giving the recipient of the scholarship a chance to experience a side of the faculty member's work the undergraduate student seldom gets.

Most of the several colleges have had Faculty Aide Scholars but Education, the Liberal Arts, and Business Administration have been more involved than the others. Education,

(Continued on page four)

AIDES —

(Continued from page three)

which has had a total of 29 Aides, had a special program for an entire year but this was an unusual circumstance. Basically, the Aide program is for the Summer Term.

Last summer, to cite a few other projects, Dr. R. V. Boucher, in biochemistry, had Leonard G. Pawlson working on an experiment with chickens; Dr. Ari Hoogenboom, in history, had Steven Roth do research for a biography of Lincoln's assistant secretary of the Navy; Dr. William Prokasy, in psychology, had Paul Miller doing classical conditioning of the albino rat.

These, and projects like them, will help undergraduate students this summer, when once again Scholarships will be made available. Faculty members are reminded that the Office of Student Aid, 218 Willard, hopes to receive nominations from them for Aide Scholarships during April. The student must be a junior or senior student with a grade average of 2.75 or better, and he must be enrolled in the Summer Term with a full credit load of courses. Further information will be furnished by calling 5-6301.

Honored

Delpha E. Wiesendanger, assistant dean of the College of Home Economics, has been honored by the College Area Home Economists in Homemaking in the naming of the group's annual scholarship. Miss Wiesendanger was given a plaque which stated that the scholarship was named for her "in appreciation for her wise guidance and interest."

TERRACE ROOM

Beginning Sunday, April 5, the Terrace Room at the Hetzel Union Building will be open from 11:45 a.m. to 1:30 p.m. each Sunday, instead of the 12-2 hours previously observed.

SIGMA XI

Any members of the Society of Sigma Xi who have membership-at-large status or are affiliated with other chapters are cordially invited to become members of the Penn State chapter. Dr. John R. Hayes, 865-4112, secretary, will provide further information.

WOODROW WILSON

Three Penn State seniors have received appointments as Woodrow Wilson Fellows for the first year of graduate study next fall, winners in competition entered by 11,000 college seniors representing 994 colleges and universities in the U. S. and Canada. Seven Penn State students received honorable mention. Two of the three winners will study physics, the third will study anthropology.

NSF INSTITUTE

Mildred Doherty, instructor in Engineering at Behrend Campus, was one of forty persons chosen to participate in a National Science Foundation Summer Institute at the University of Houston, June 22 to August 15. The program is for technical institute and junior college faculty members and Miss Doherty will enroll in "Transistor Amplifier Design and Application of Calculus."

SHORT COURSE

A Meat Short Course, designed for personnel of State institutions who are responsible for purchasing, processing, and utilizing meat, will be conducted by members of the animal industry and nutrition department next week. The program is part of the agreement between the University and departments of the Commonwealth in developing and conducting a continuing study and analysis of institutional food service in State institutions.

CALENDAR



Friday, March 20

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. R. N. Foose, chairman, department of geology, Amherst College, on "Methods of Contract Research by a Major Research Organization."

Sunday, March 22

Winter Term Commencement, 2 p.m., Recreation Building.

Monday, March 23

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A". Dr. C. R. Carpenter, on "The Hershey Medical Center."

Opening session of the Second Computer Programming Workshop, 9 a.m., Computation Center. Continues until March 23.

Thursday, March 26

Biological Science Lecture Series, 3:55 p.m., Room 112 Buckhout. Dr. C. L. Markert, professor of biology, Johns Hopkins University, on "Mechanisms of Cellular Differentiation."

Consulting

Two members of the staff have been named to a consulting committee to the labor education program at West Virginia University.

Hugh G. Pyle, assistant director for methods research in Continuing Education, and Helmut J. Golatz, program director of the department of labor education, have been appointed to the committee, which is to be chaired by Emery Bacon, director of Education for the Steelworkers Union.

Pyle and Bacon helped to establish the labor education program at Penn State with the first Steelworkers Institute in 1946. Golatz has been in charge of Steelworkers campus programs for the University since 1957.

faculty BULLETIN

Vol. 51, No. 35 March 20, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

CALENDAR



Monday, March 30

Spring Term Orientation Program begins. Biological Science Lecture Series, 3:55 p.m., Room 112 Buckhout. Dr. Barbara Rennick, professor of biology, Mt. Holyoke College, on "Physiology of Renal Function."

Tuesday, March 31

American Chemical Society meeting, 8 p.m., Room 112 Buckhout. Dr. Rustum Roy, director of Materials Research Laboratory, on "Crystal Chemical Contributions to Solid State Science."

Spring Term registration. Concludes April 1.

Thursday, April 2

Spring Term classes begin, 8 a.m. Conference on "Reinhold Niebuhr and the Use of History," Nittany Lion Inn, afternoon and evening sessions, with Dr. Nelson Manfred Blake, Syracuse University.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Richard Bersohn, Columbia University, on "Phosphorescence in Polynucleotides."

Friday, April 3

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Keith Bullen, professor of applied mathematics, University of Sydney, Australia, on "The Earth's Core."

Hate Groups

Gordon Hall, lecturer and researcher on extremist and hate groups, will speak on "The Threat from Hate Groups in America," as opening lecturer April 19 for a two-day conference sponsored by the Committee on Interreligious Affairs. The conference is titled "Colloquy on the Extreme Right."

A panel of student questioners will respond to Hall's presentation, which will begin at 7:30 p.m. The public is invited.

Scholarship Fund

A bequest of \$15,000 by the late Gus A. Beard, 1921 graduate in mining, has made possible the initiation of a Mineral Industries Alumni Scholarship Fund, under which outstanding undergraduates in the College of Mineral Industries will be given scholarship aid.

Beard was a mining engineer for the Keystone Coal and Coke Co. and after dissolution of the company continued to operate several coal mining enterprises of his own. He was a resident of Greensburg, Pa., and his will provided bequests for many charities in that area. He was a World War I veteran and completed his baccalaureate work after returning from France in 1919.

The principal of the Fund, which is expected to be augmented by gifts from other Mineral Industries alumni and friends, will be invested to provide one or more scholarships each year to worthy students or prospective students in need. The scholarships may be renewed if the student maintains a satisfactory academic record.

New Facilities

A new Laboratory for Research on Animal Behavior, with Dr. J. M. Warren, associate professor of psychology as director, has been opened on East Campus near the Research Center.

Built at a cost of about \$300,000, of which half was provided by a grant of the National Science Foundation, the new center provides facilities for members of the psychology and zoology departments who are engaged in behavioral research.

The structure, of brick-faced concrete block and steel construction, contains offices, quarters for animals, observation rooms, a dark room, a histology laboratory, an operating room, a supply room, and a maternity ward for mother cats and kittens.

Dr. Edwin L. Cooper and Dr. David E. Davids, of the zoology department, have special facilities in the building also, the former for studies in the feeding behavior of fish, the latter for research on starlings and woodchucks.

LIBRARY TALK

Graduate students are invited to attend a talk on library materials and take part in a tour of Pattee Library Wednesday, April 8 at 7:15 p.m. in Room 6 Pattee. Students should sign at the Reference or Information desk so that enough guides will be provided. Instruction in the library is offered to classes, as described in the "Library Handbook for Faculty and Graduate Students."

Niebuhr Conference

Dr. Nelson Manfred Blake, professor of history at Syracuse University, will be guest lecturer for the one-day conference on "Reinhold Niebuhr and the Use of History," sponsored by the University Christian Association, Thursday, April 2, in afternoon and evening sessions in the Laurel Room of the Nittany Lion Inn.

Designed for historians and political scientists, the conference has been made possible by a grant from the Danforth Foundation and is by invitation only.

Dr. Blake will speak on "What Does History Mean?" and "Does God Laugh at History," in discussions of the noted theologian and philosopher, whose writings have influenced many historians and political scientists.

Responses to Dr. Blake's presentations will be given by Dr. Alfred G. Pundt, professor of European history; W. Taylor Stevenson, associate rector of St. Andrew's Episcopal Church in State College; Dr. Neal Riemer, professor of political science; and Richard E. Wentz, director of faculty program, University Christian Association.

Cologne Students

Tuesday, the first contingent of European students to enroll at Penn State in an exchange program with Cologne University will arrive to begin studies for the Spring Term. At the same time, Penn State students will be flying to Germany for their Study Abroad Program.

The Cologne students are advanced and graduate majors in economics and the social sciences. They will live in residence halls, sharing living quarters with a Penn State student in the social sciences.

Eventually, it is hoped that the exchange program will be expanded to include the Universities of Salamanca and Strasbourg, where Penn State students will be studying during the Spring Term. Others are studying at the Architectural Association School and the Slade School of Fine Art in London.

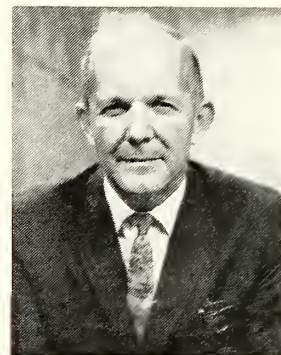
AAUP Meetings

The Penn State chapter of the American Association of University Professors will meet Tuesday, April 7 at 7:30 p.m. in Room 124 Sparks.

Other meetings of interest to AAUP members include the Association's annual business meeting April 10-11 in St. Louis, Mo., at the Chase-Park Plaza Hotel, and the annual meeting of the Pennsylvania division at Dickinson College, Carlisle, April 18.

The Audiences of English

by Dr. Henry Sams



WHEN Matthew Arnold visited Oberlin College some years ago, he was billeted in the home of President Henry Churchill King. Oberlin was in those days somewhat given to sobriety. In fact, as an ancient alumnus recently remarked, it had no vice save only that of hypocrisy. At bed-time Arnold asked Mrs. King for a bit of whiskey. A gracious hostess, she brought it to him—a bottle and a teaspoon.

This is a paradigm of the young Ph.D.'s frustration. He comes into his laboriously earned profession ready for the raw corn liquor of intellectual combat—and he gets a freshman section. He proposes to serve his generation as analyst, historian, and conscience—and he faces the pinfeathered reality of a sophomore survey.

The motives that lead young men and women to choose the college teaching of English as their profession are one thing; the job itself is another. Under the circumstances, young men frequently fail at the job.

Failure, I realize, is a harsh word. It is a harsher word than I would like to use here, for I confess that my sympathies are strongly on the side of these brash and presumptuous young men and women. Quixote isn't all down. I had rather put up with a courageous failure than with a safe, pragmatic mediocrity.

But failure it is. Young men fully documented, hearing the honors of doctoral study at old and deservedly famous institutions, frequently cannot do the daily work of a college teacher.

Furthermore, it is not uncommon to see these well documented young men fail at their teaching, and enjoy it. They never proposed to succeed at it—not at this job. They feel no compelling responsibility to do it well.

Let me illustrate:

An instructor confronted with thirty freshmen in composition declines to make writing assignments on the ground that his time is too valuable to be spent in reading them. I found this out through complaints of other instructors.

Another absents himself from more than one-third of the scheduled meetings of his class on the ground that the class meetings are dull and unprofitable. I found this out because one of the students in his class was the daughter of a university trustee.

Another addresses hand-picked, alpha freshmen with such violent sarcasm that the section literally dissolves, ceases to exist in fact and on paper, and draws from the experience reassurance of his own intellectual integrity. —I found this out from a delegation of outraged students.

Another refuses the consensus of his colleagues on selection of texts and proposes to spend an entire term explicating the imagistic structure of "King Lear" to a group of marginally literate freshmen. —I found this out from the instructor himself, who confidently volunteered his own indictment.

There may have been other catastrophes that escaped my notice.

But these that I have enumerated occurred. They occurred within range of my own im-

ACKNOWLEDGEMENT

This article by Dr. Henry W. Sams, head of the department of English, is reprinted by permission of the National Council of Teachers of English from the February issue of "College English." Dr. Sams presented the paper originally at a "Seminar on English in Contemporary Education," held at the University of Michigan, last August 7-8. He spoke at a session considering "The Preparation of College Teachers of English," along with Dr. Lawrence Ryan, chairman of the English department at Stanford University.

mediate observation. In every instance the instructor involved was a man with complete credentials, prepared to contribute usefully to scholarly periodicals and engaged in contributing to them.

By bringing such examples forward I run the risk of converting the problem before us from an educational one into a moral one. Such behaviour may be regarded as rather

sinful than ignorant. But in fact it is an educational problem. According to their lights, these young men were virtuous. In their opinion, "somebody up there" liked them and what they were doing.

This brings me back to the point at which I began: Arnold was at liberty in the privacy of his bedroom to ignore the teaspoon—though I find it hard to think of Matthew Arnold downing a jolt from the bottle. The teachers have no analogous alternative. They are in public. We are talking about the public aspect of their job. It is in this public, exposed aspect of the job that the graduate schools seem to be remiss. Somehow in the course of selection or training the attitudes are skewed. Or at any rate, skewed attitudes are tolerated. I believe that we should consider whether something better isn't practicable.

Not all graduate students of English become teachers, but most of them do. Enough of them become teachers to justify the conclusion that they ought to be prepared for the job. I propose to consider what this preparation implies, without attempting to offer detailed means for effecting it. I am interested just now in ends.

One way to approach the problem is to consider the audiences that a teacher must confront. Teachers like audiences. A profession which consists so largely of talking and writing attracts people who like to talk and to write—presumably in the expectation that somebody will listen, and somebody will read. To whom is the college teacher talking? Who does he think is listening?

There are, I believe, three distinct audiences for the college teacher, and if he is both assiduous and fortunate, he may be able to maintain a useful conversation with all of them: they are his students, his colleagues, and his faculty. I shall sort the three out as I go along.

First, there are the students.

Some schools maintain the delusion that all their students are finished scholars—the minimum IQ is this, the minimum College Boards is that, and the minimum national percentile is thus and so. I have seen a num-

ber of such schools, and taught in four of them, but I never have been able to find the students they are talking about. Like other schools, they maintain an instructional program. The students can use a little help here and there.

And yet the illusion persists of the ready-made intellectual aristocrat, born to a natural state of educational grace. To expect such students, to look with dismay at the juvenile realities of the classroom, is a popular stance. It proves that one's standards are high.

We are now called upon to teach English—hopefully of collegiate grade—to about twenty-five per cent of the citizens of this country. Not all the students in this twenty-five per cent can belong to the upper tenth. Furthermore, in our fluid, democratic society we can never be sure that the people in our twenty-five per cent all belong there. Young people turn up in our classes for wrong, or impertinent, reasons—for reasons of status, laziness, parental pressure, and so on. Others who ought to be there may be excluded for even more abominable reasons. Our ablest student may appear at first camouflaged in ignorance by an ill-equipped, undermanned high school. Our silliest student may at first be glib with surface learning.

The science of admissions officers is not yet infallible.

For these and for other reasons, the salient characteristic of any college class is miscellaneousness. The range of accomplishment, of ability to read and write, of knowledge, is astonishingly wide. And a teacher who proposes to deal with them needs first of all to be attentive to them, to study them, to find out who they are. Above all, he needs, at least provisionally, to respect them as people with some potential for learning, for dedication to the best that has been thought and said, for integrity.

I can't think of a paradox more oppressive than that of the man who makes a career in teaching but who holds the students in contempt.

Some years ago I heard a talk by a distinguished member of one of the most honored English faculties. He said, in effect: "Somewhere, sometime rigor and standards must begin." I suspect that if he could hear me now, he would feel that I am contradicting him. Perhaps I am, but I hope not.

I do not propose that we derive our standards from our students. They don't have them to give. Nor can we take discipline from the undisciplined. Most certainly I am not recommending that the condition known as "popularity with students" be respected as a criterion of success. It is easy, by what Joe Schwab calls "soft shoe tactics," to win a meretricious popularity with students, though not, perhaps, with the best students.

I agree that rigor and standards must begin. They must begin no later than the first session of the first English class that the student attends after his arrival on campus. If I have any quarrel, it is this: to achieve rigor and standards requires more than sound knowledge of language and literature.

The teacher of English is a practical, as well as a theoretical, rhetorician. As such,

his first qualification is genuine authority, mastery of his field. In this aspect of his training the graduate schools are succeeding reasonably well—better, I believe, than they used to do.

But there is a second qualification. It is the hard knowledge, the information, which enables authority to prevail over force, prejudice, and confusion. It is this aspect of training, or the lack of it, that accounts for the failures that I have enumerated. To reach the audience, the real audience, the students actually sitting there, requires something very different from mere attitudinizing. Pedantry won't do. Chumminess won't do. Nor is the problem one that can be reduced to formulated statement. Every man who works it out successfully seems to me to have worked it out in his own way, with individual differences that it might be wrong for another man to imitate.

In short, I see no easy way out of the dilemma I describe. A lick and a promise won't be enough. But we can acknowledge the problem. That is the first step. And we can persuade students to take it seriously.

So much for the first of the three audiences. The other two can be managed more briefly.

* * *

THE second audience consists of what I have called colleagues. By colleagues I mean immediate professional neighbors, the men in the offices along the hall.

There is a standard training program in this field, although it has no formal grades and doesn't affect the transcript. The training program consists of putting a dozen graduate assistants into a bullpen office of some kind—the assistants themselves have different names for it from campus to campus—"the compound," "the corral," "Dachau," "the gas chamber," etc.—and then to observe the evolution of the hierarchy that establishes itself there. The idea is to learn from experience. If things go wrong, one may consult Big Brother, but in general it is every man for himself.

Of what does success in this program consist? Conspicuous success and conspicuous failure are easy, of course, by definition. The intermediate shadings are more difficult.

There are a few elementary tests that seem to me reasonably effective in identifying the talent that I am talking about, the talent for colleagueship. The first is this: Do his neighbors seek and respect his opinions? If so, on what kinds of questions?

A student who makes a specialty of knowing how to con a particularly stubborn professor may have evinence of a sort, but it is less persuasive than that of a man who is consulted on a wider range of questions.

Second, can he do things? That is, can he begin, execute, and finish them? Intelligence is an activity, not a state of grace. And reputation for a vast, inactive intelligence seems to me to get even a sharper and more sudden justice from the bullpen than it does from the faculty.

Third, is he himself attentive to opinion, and capable of constructive disagreement?

Being a good committeeman is not the chief academic virtue, but it helps.

I will make an exception here, if I may, for the arrogant curmudgeon who is really all that he pretends to be. But I don't have to urge the point. With all our sins, I believe that sheer ability is still the most respected commodity in our profession.

* * *

THE third audience I have called the "faculty." The faculty is different from one's colleagues in that it may consist principally of men remote from one's local campus, or country, or generation. They are the men in one's field whose names one drops.

They are fewer in number than one might think.

They are less attentive to new arrivals than one might suppose.

They are the last, not the first, audience from whom a hearing is to be expected.

It is natural and right to project one's hopes beyond the immediate horizon. Some young men work harder than others to earn a national and international hearing. Of those who work hardest, some are quicker, or abler, or better trained, or luckier than others. These differences are quickly recognized by people who seek to build strong faculties. The young men who are most visible in this light are the young men most urgently in demand. Naturally, they strive for visibility.

I have no quarrel with them. I don't see what else they could in common sense do. But insofar as we permit this one criterion to obscure the other two, we endanger the entire educational enterprise. Insofar as we listen to the applause of this one audience only, and ignore or depreciate the other two, we are in error.

And this error is fundamental, for it ignores constituency. We have, miraculously, the confidence and support of a vast and complex society. This is true for all of us, not just for the tax-supported and the tuition-supported schools. Without it, we are helpless.

And we have their support because we are supposed to be useful and interesting—not just to one another—but absolutely. It is astonishing, as Fred Bateson has pointed out, that our society, which will not tolerate a rich man, or a powerful man, that quickly taxes or votes him down to a reasonable compass, will tolerate an educated man, will, in fact, covet education for its children as avidly as ever a miser coveted gold.

This great surge of educational concern is a new thing. I believe that it is a good thing. At any rate, I believe that we have no alternative but to accept it at the primary fact in dealing with the graduate students it has sent us.

For this reason, I believe that while posterity, we hope, may overhear us, or some of us, and approve, the first and most important thing we have to do is to speak plain, honest stuff, and to be understood within the limited range of our little place and time.

To this end we should, by precept and example, direct our young teachers to teach. Teaching is our "opus Dei." And there is nothing we can say to one another important enough to justify its subordination.

PERSONNEL MATTERS



Dr. Richard M. Colwell, professor of accounting, died March 19 after an illness of several months. He was appointed lecturer in accounting in 1957 and was named professor of accounting in 1962. He received both bachelor's and master's degrees from the University of Rhode Island and the doctor of philosophy from the University of Massachusetts, where he taught before coming to Penn State.

Dr. Vladimir Vand, professor of crystallography, has been granted a leave of absence, beginning March 21, to visit university laboratories in Great Britain, Germany, and Switzerland. He will also do field work on meteorite craters, to continue his research on minerals formed at very high temperature.

William E. Small, a science writer in the physical sciences division at the University of Chicago, has been appointed scientific information officer in the department of public information. He will report on research activities of the several colleges. He is a graduate of Michigan State University in geology and received the master's degree in science writing, also from Michigan State. He has been a biological sciences writer with Science Service.

Dr. Joseph Jordan, professor of chemistry, has been elected Fellow of the American Association for the Advancement of Science. He has been a member of the Association since 1953.

RELIGIOUS STUDIES

Certain schedule changes in Religious Studies courses are announced for the benefit of faculty advisers.

Spring Term: Add R.S. 402, Contemporary Religious Thought (3:3:0); TS 13, 319 Willard. Mr. Fenton. Drop R.S. 430, Religion and Morality.

Summer Term: Change R.S. 19, Religion in American Life and Thought from 1 hour to 3 hours credit. R.S. 440, Problems in Religious Studies (3:3:0) available by appointment.

Fall Term: Drop R.S. 400, Religious Ideas of Great Men. R.S. 410 will be available to sophomores as well as upperclassmen.

Display

Exhibits illustrating various aspects of current research in the Division of Animal Science and Industry will be on display this evening (Friday) from 8 to 10 p.m. in Warnock Hall Lobby, at the corner of Shortlidge Road and Park Ave.

Sponsored by the departments of animal industry and nutrition, agricultural entomology, poultry science, and veterinary science, the display will emphasize the degree to which basic principles and techniques of the physical and biological sciences are used in the solution of agricultural problems.

The display precedes the College of Agriculture Open House program Saturday and is sponsored by the Society of Sigma Xi.

Film Festival

A series of four highly significant and provocative films will be shown in April at the HUB Assembly room to encourage students and non-students to give more serious consideration to the problems and questions raised by the films. A discussion session led by faculty and staff members will be provided after each film showing in Room 218 HUB.

The films to be shown are:

"The Doctor's Dilemma," based on the George Bernard Shaw play, Friday, April 10.

"Illicit Interlude," one of Ingmar Bergman's greatest films, Tuesday, April 14.

"All the King's Men," based on the Robert Penn Warren book, Friday, April 17.

"La Strada," by Federico Fellini, one of his classic films, Tuesday, April 21.

The films will be shown at 7 and 9 p.m. and the admission price is 35 cents per film. A series ticket, priced at \$1.25 may be purchased at the HUB desk or through member agencies of the University Christian Association, which is developing the series. Tickets may also be ordered by sending a check to the Film Festival, U.C.A., The Chapel.

Land Acquired

A 2.013-acre tract of land has been purchased by the University to add to the Ogontz Campus in Abington Township, in Montgomery County. The purchase also includes the home on the property which will be used for health and physical education offices and the grounds will be developed for physical education and recreation purposes.

faculty BULLETIN

Vol. 51, No. 36 March 27, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
The Pennsylvania
State University**

American issues

A series of four symposia, generally titled "American Issues," conducted by members of the faculty and sponsored by the Program in American Studies and the Faculty Committee of the University Christian Association, will begin next Wednesday, April 8.

The first symposium will consider the subject, "Peace: Problems and Prospects," and will include as panelists Elton Atwater, professor of political science, Ari Hoogenboom, associate professor of American history, and Marvin E. Rozen, associate professor of economics. Arthur H. Reede, professor of economics, will be the moderator.

All symposia will be held in Room 101, Chambers.

The other three programs will be held as follows:

April 15—Prosperity: Poverty in an Abundant Society, with Frederick C. Fliegel, E. Hans Freund, and Paul M. Harrison, and as moderator, J. Mitchell Morse.

April 22—The American Community: Ideals and Realities, with Gregory Ain, Roy C. Buck, Arnold Noach, and Winston R. Weisman, and as moderator Richard E. Wentz.

April 29—Cultural Unity: Equality and Diversity, with Samuel P. Bayard, Paul B. Foreman, and Alan Trachtenberg, and as moderator, Chadwick C. Hansen.

DEADLINE

April 10 is the deadline for filing applications to take the Medical College Admissions Test. Application forms are available in Room 107 Whitmore Laboratory.

Record Admission Applicants

Applications for admission to the University continue to arrive at the rate of about 200 per week and to date more than 17,500 have been received for enrollment in the Summer and Fall Terms. More than 31,500 application forms have been requested from high school students and others interested in considering Penn State.

Because of space limitation, a majority of the applicants will have to be refused, although most of those who have applied appear to be fully qualified for admission.

About 6,700 members of the 1964

high school graduating class will be accepted—2,800 baccalaureate freshmen for the Fall Term at University Park; 875 for the Summer Term at University Park; 1,735 baccalaureate freshmen at the other Commonwealth Campuses; and 1,280 associate degree freshmen.

Last year at this time the number of formal applications processed was 12,500. The increase is explained by the fact that the 1964 class is the first large post-war birth group. Also, there has been a rapid up-grading of high schools during the past five years and more students are therefore eligible for admission to colleges.

Play premiere

The American premiere of the British play, "Billy Liar," is being performed this week at the Wilkes-Barre Center, directed by J. Lawrence Lowenstein, instructor in English.

The play ran for 18 months in London, with Albert Finney, of "Tom Jones" and "Luther" fame in the lead and a film of it was an outstanding success in New York.

In addition to Wilkes-Barre Center students, area residents with much acting experience have taken lead roles in the performance.

BOC school

The annual Band, Orchestra, and Chorus School, sponsored each summer by the departments of music and music education, will be held this year at University Park from July 6 to August 7.

Members of the faculties of the two departments and of the Curtis String Quartet will conduct the programs.

Further information may be obtained from the Music Department, 100 Carnegie.

Disarming

Mrs. Donna Allen, chairman of the Legislative Committee of the Women's International League for Peace and Freedom, will speak on "The Economic Necessity to Disarm," Wednesday, April 9 in Room 1212 Sparks at 8 p.m.

The talk is sponsored by the Women's International League; SENSE Students for Peace; and the Friends Peace Committee.

Senate meeting

The University Senate will meet Tuesday, April 7, at 3:55 p.m. in Room 121 Sparks.

Witness

Dr. George F. Deasy, professor of geography, testified before a Subcommittee of the U. S. Senate Committee on Interior and Insular Affairs March 25.

He spoke relative to a bill to provide for a study of strip and surface mining operations. The bill would authorize the Secretary of the Interior to study and survey the nature and extent of strip and surface mining operations in the U. S., the ownership of the real property involved, and the various adverse and potentially beneficial effects of strip mining on the general public.

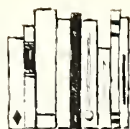
Dr. Deasy urged that three additional charges to the Secretary be included in the bill to survey and study: the public interest in and public benefits which may result from the appropriate development and use of areas subjected to strip and surface mining operations for recreational and educational purposes; development and use of such areas for flood protection and water conservation; and development and use of such areas for disposal of urban and industrial wastes.

He pointed out that the bill as written failed to specify and detail charges to the Secretary of potentially beneficial purposes for which mined-out stripped lands may be employed for the public good.

The present bill, he added, merely reflects the prevalent public opinion, which he believes is erroneous, that the after-effects of strip and surface mining are inevitably destructive, and that stripping involves the rape of the land and its removal from productive usage unless and until the terrain is once more restored to its original contours.

Past and present regulatory measures, he says, stultify the imaginative development of such lands.

BOOKS



Aurelia K. Adams, assistant professor of clothing and textiles, is co-author of the new third edition of a textbook, "Clothing Selection: Application of Theory." Two former members of the faculty, Betty C. Delavan and Louise G. Richards, are the other authors. Publisher is Burgess Publishing Co. and the new edition will be available in April.

Denis Stevens, professor of music, has transcribed and edited a volume of compositions for organ and harpsichord by Thomas Roesingrave, which has been published by the University Press.

Roesingrave was born in 1690, son of an organist of Winchester Cathedral and in 1707 entered Trinity College, Dublin. From 1710 to 1725 he was in Italy, where he came under the influence of Scarlatti and Palestrina. He returned to Ireland and died in 1766.

With one exception, the music in the volume was recorded by Dr. Leonard Raver, Chapel organist, on the famous Fenton House collection of harpsichords.

The compositions include Voluntary IV; Fugue X; Double V; Introduction to Scarlatti's "Lessons"; and four studies of lessons.

Dr. Nicholas A. Masters, associate professor of political science, is chief author of "State Politics and the Public Schools," which was published March 20 by Alfred A. Knopf, New York. Co-authors are Dr. Robert H. Salisbury, associate professor of political science at Washington University, St. Louis, and Dr. Thomas H. Eliot, chancellor of Washington University.

The book was made possible by a Carnegie Corporation grant to Washington University to finance two years of research prior to its publication.

Dr. Masters served as research associate for James B. Conant (in his study of the education of American teachers) who says of the book, "It is time that the citizens concerned with excellence in education were familiar with the realities of state politics and the public schools. This new exploratory analysis, therefore, serves a most useful purpose and deserves to be widely read."

Examined in the book are the and Missouri.

Barbecue service

An underground pit for barbecuing beef has been constructed in the New Hort Woods adjoining University Drive, about half way between the campus beef cattle barn and New Beaver Field. This facility is available for demonstrational food service to University related groups of 100 to 1,000 persons during the spring, summer, and fall months.

Set up as an approved University facility, this beef barbecuing service is available at a nominal charge for time and materials. Orders for barbecues should be made three weeks in advance of the desired date at room 101 of Forestry Building, 865-7541, giving full details. Catering service will be arranged on request. An illustrated write-up describing beef barbecuing is available.

The barbecuing service will be operated by students from the Forestry Society and the Block and Bridle Club and will be supervised by Peter W. Fletcher and Glenn R. Kean of the College of Agriculture faculty. The barbecue pit was built with funds from the Forestry Society.

Exhibition

The exhibition of Crafts and Photography of members of the faculty opened this week at the HUB gallery and will continue on display until April 15. Included are pottery, photos, and wall hangings.

COURSE OFFERINGS

Course Offering Request Forms for the 1965 Spring Term are due in the office of the Vice President for Resident Instruction on or before Wednesday, April 15, 1964. Heads of departments must have their recommendations to the office of their respective deans prior to that date.

FOLK DANCES

The Interlandia Folk Dance program will resume today (Friday) at 7:30 p.m. in Room 302 Engineering "A." All interested persons are invited.

CONSERVATION CAMP

The 17th annual Pennsylvania Junior Conservation Camp will be held June 21 through Aug. 15 in the Stone Valley Recreation Area. More than 170 high school boys will attend the camp, which is sponsored by the Pennsylvania Federation of Sportsmen's Clubs.

SEISMIC TRUCK

An experimental seismic recording truck, to be used for instructional and research purposes in geophysics, has been donated by the field research laboratory of the Socony Mobil Oil Co., of Dallas, Tex.

PERSONNEL MATTERS



Dr. Grant W. Smith, professor of chemistry, has been elected Fellow of the American Association for the Advancement of Science.

Stephen T. Cockerham, 1961 graduate of Purdue University, has been appointed assistant county agent in Lackawanna County. For over a year he was a Peace Corps volunteer in El Salvador, Central America.

Charles A. Boyles, currently a candidate for the doctor of philosophy degree in mathematical physics, has been named research assistant in the Ordnance Research Laboratory. He is a Penn State graduate.

Paul A. McNichol, television project engineer, consultant and supervisor of operations and television facilities for the U. S. Joint Communications Agency, Fort Ritchie, Md., has been appointed chief of educational broadcast systems in the division of broadcasting. He will be responsible for planning and designing broadcast systems, including Channel 3.

Dr. Russell B. Dickerson, associate dean and director of resident education in the College of Agriculture, will be on leave for the next year to supervise the fellowship program of the Agricultural Development Council, Inc., of New York. He will travel to Asia to interview social scientists applying for fellowships for study in this country; oversee preparation of materials related to fellowships prior to review by a committee in the Agricultural Development Council; and he will visit 39 Asian scientists currently studying under ADC fellowships at 17 American universities.

Reid collection

The late Dr. James J. Reid, professor of bacteriology, will be memorialized in the establishment of a Memorial Book Collection in the Department of Microbiology.

Funds to initiate the collection are being accepted from Dr. Reid's friends and former students and will be deposited in a special account in the Alumni Fund office. Dr. L. E. Casida, Jr., is in charge of the collection.

Those wishing to contribute should send their checks to the department, made payable to The Pennsylvania State University and marked for the Reid Book Collection.

(Continued from page four)

- cento Roman Art; Manifestations and Motivations," at the Courtald Institute in London and the University of Pavia, Italy.
- JAN, E. R., secondary education, "Extending the Roots of Indonesian Teacher Education," in the International Review of Education with abstracts in French and German.
- "The Neglected Ones," in the February issue of The Clearing House.
- ORTUNATO, R. T., personnel services, "The Personnel Representatives System at Penn State," before the Southern Conference of the College and University Personnel Association in Mobile, Ala.
- FREAR, D. E. H., chemical pesticides, with ERCEGOVICH, D. C., "The Fate of 3-Amino-1,2,4-triazole in Soils," in the Jan.-Feb. issue of Agricultural and Food Chemistry.
- GORSLINE, G. W., agronomy, with AUBERTIN, G. M., "Effect of Fatty Alcohol on Evaporation and Transpiration," in the Agronomy Journal.
- FRICK, J. V., speech pathology, with AUNGST, L. F., "Relationships between Four Tests of Auditory Discrimination Ability and Consistency of Articulation of [r]," in the Journal of Speech and Hearing Disorders."
- GERHOLD, H. D., forestry, research results in forest tree improvement at the annual meeting of the Allegheny Section, Society of American Foresters in Baltimore.
- GINTER, O. J., and BUBASH, G. R., veterinary science, "Microsporium nanum Infection in Swine," in the January issue of Veterinary Small Animal Clinician.
- GREENHILL, L. P., Division of Instructional Services, "Instructional Television Research—Past and Future," at the National Conference on the Improvement of Teaching by Television, University of Missouri.
- GRIESS, PHYLLIS R., geography, "The Ashland, Pennsylvania, Tourist Facility: A Geographic Case Study," at the Pennsylvania Academy of Science meetings.
- "The Pennsylvania Anthracite Industry: A Status Report," before the Association of American Geographers meeting in Syracuse, N. Y.
- GRUN, PAUL, genetics, "Ultrastructure of Plant Plasma and Vacuolar Membrane" in the Journal of Ultrastructure Research.
- GUTHRIE, G. M., psychology, "Behavioral Changes in the Philippines" at symposium conducted by the Association for Asian Studies in Washington, D. C.
- HAMILTON, R. H., botany, "A Corn Mutant Deficient in 2,4-Dihydroxy-7-methoxy-1,4-benzoxazin-3-one with an Altered Tolerance of Atrazine," in the January issue of Weeds.
- HARRIS, D. B., psychology, "Work in the Socialization of the Adolescent" at meetings of the American Educational Research Association in Chicago.
- HARRISON, P. M., religious studies, "Sociological Analyses of the Participating Communions," in the 1962 and 1963 issue of the Consultation on Church Union.
- HARTMAN, H. L., Engineering, with Trafton, Burke, "Digital Computer Solution of Mine Ventilation Problems," before the Coal Division of the American Institute of Mining, Metallurgical, and Petroleum engineers.
- HUET, C., microbiology, with KRANTZ, G. E. and DUFF-CLIFF, J. M., "Development of Antibes against *Aeromonas Salmonicida* in Gut," in the December issue of The Journal of Immunology.
- HILL, HEDD, and HOVIN, A. W., U. S. Pasture Research Laboratory, "Meiotic Irregularities and Potential Seed Production of *Dactyloctenium aegyptium* L. *Bromus inermis* Leyss., at *Phleum pratense* at Different Locations," in the January issue of Crop Science.
- HOUCK, J., agricultural economics, "A Statistical Model of the U. S. Soybean Market—Application of the Joint Product Concept," in the May, 1964 issue of the Journal of Farm Economics.
- JOHNSON, J., Ordnance Research Laboratory, a presentation on education in acoustics at the meeting of the American Institute of Physics New York.
- KELZ, J. and HUDSON, G. R., counselor education with RUSSO, J. R., University of South Illinois, "Are Good Counselors Open Minded?" in the Winter issue of Counselor Education and Supervision.
- KLAUS, E., chemical engineering, with TEWKSBURY, E. J., JOLIE, R. M., SOCONY Mobil Oil; LLOYD, W. A. and MANNING, R. E., Con Instrument Co.; "Effect of Some High Energy Sources of Polymer-Thickened Lubricants," at the Symposium on Poly Degradation, sponsored by Division D of ASTM Committee D-2, Atlantic.
- LEFCZAR, F., physics, "Theory and Practice of the Plane as a Friction Separator for Mine," in the October issue of the Indian Journal of Technology.
- LUMLEY, J., Ordnance Research Laboratory, with S. CORRISIN, P. G. SAFFMAN, J. O. HE, "Diffusion and Lagrangian Effects," one of 24 papers constituting proceedings of the International Symposium at Versailles, in 1961, published under title, The Mechanics of Turbulence."
- MARIN, JEN, engineering mechanics, "Needed Evaluations on Mechanical Behavior Ceramic Materials," at the annual meeting of the American Ceramic Society in Chicago in April.
- MAUNER, G., art history, "The Nature of Nabi Symbolism," in The Art Journal.
- MCCORD, R., Engineering continuing education, with SCHAEFER, C. J., "The Technicians: New Definitions," in the current "Technic Education Yearbook."
- McKEE, G., agronomy, PASIO, J. K., agricultural economics, CAMPBELL, H. T., PFEIFFER, P., and BRYNER, C. S., "Factors Affecting the Farmer's Choice and Use of Seed" Bulletin 706, Agr. Expt. Sta.
- MILLER, E., geography, "Trends of the Coal Mining Industry of the Upper Susquehanna basin (West Branch) 1925-62" at the Pennsylvania Academy of Science meetings.
- MOCK, E., finance, "Pennsylvania's Problem of Management Succession" in the February issue of Pennsylvania Business Survey.
- MOISEWITZ, JRI, agricultural engineering, TUKEY, D., pomology, with WHITNEY, J. D., "Alleviating Mechanical Harvester for Apples Trained to the Plateau System," in the Proceedings of the American Society for Horticultural Science.
- MULAY, INDUMATI L., and MULAY, L. N., Materials Research Laboratory, "Magnetic Field Effects and Magnetic Studies on Biological Systems and Cancer," at the American Cancer Society Seminar, West Palm Beach, Fla.
- MUELLER, E. W., physics, "Progress in Field Ion Microscopy," at the International Conference on Materials, arranged by the A.S.T.M.
- MURR, L. E., engineering mechanics, "A Microscopic Study of Lethal Electrotropism in Plants" and "Dynamic Analysis of Metallic Deformation by Transmission Electron Microscopy" at the meeting of the Pennsylvania Academy of Science.
- OLIVER, R. T., speech, "Cross-cultural Communication," at Harding College, Memphis, Tenn.; "Keeping Faith with Persuasion in a World of Coercion" at the Southern Speech Association Convention, Houston, Texas; and "Education in the Year 2000 A. D." before the Eastern States Speech Association meeting in New York.
- OSBOW, S. H., Division of Counseling, with GROOMS, R. R., Frostburg State College, "Reciprocal Association to the Kent-Rosanoff Primary Association," in the February issue of Psychological Reports.
- PALMER, H. B., fuel technology, "A Shock Tube Study of the Kinetics of Decomposition of Sulphur Dioxide," (with A. G. Gaydon and G. H. Kimball, Imperial College, London) in Proceedings of the Royal Society.
- PANOFKY, H. A., meteorology, with G. D. HESS, "Vertical Structure of Turbulence," with JAMES McLEAN, "Clear Air Turbulence"; and with STEPHEN BERMAN, "The Spectrum of Wind Speed," all at the fifth conference on applied meteorology of the American Meteorological Society.
- PIGOTT, M. T., Ordnance Research Laboratory, "Feasibility of Observing a Single Quantized Vortex in He II by Acoustic Detection" at a Physics Colloquium at the University of Vermont.
- PRYBYLA, J. S., economics, "The Economic Strengths and Weaknesses of Communism in Eastern Europe," in the winter issue of Business Topics, publication of Michigan State University.
- RAYBACK, J. G., labor education, "Presidential Chances and Jinxes" at the Ninth Annual Conference of the Missouri Valley Teachers of History at Omaha, Neb.
- RIEW, JOHN, economics, and GROVES, H. M., University of Wisconsin, "Financing Metropolitan Municipalities in Wisconsin," in Land Economics, publication of the University of Wisconsin.
- ROY, RUSTUM, Materials Research Laboratory, "Quenchable Effects of High Temperature-High Pressure Treatment on Nonmetallic Inorganic Materials."
- ROY, RUSTUM, Materials Research Laboratory, "Phase Equilibria as Quantitative Crystal Chemistry," at College of Ceramics Colloquium, Alfred University.
- "Electron Microprobe Analysis in Materials Science," before the American Society for Metals, Rochester, N. Y.

(Continued on page six)

BOOKS



Aurelia K. Adams, assistant professor of clothing and textiles, is co-author of the new third edition of a textbook, "Clothing Selection: Application of Theory." Two former members of the faculty, Betty C. Delavan and Louise G. Richards, are the other authors. Publisher is Burgess Publishing Co. and the new edition will be available in April.

Denis Stevens, professor of music, has transcribed and edited a volume of compositions for organ and harpsichord by Thomas Roesingrave, which has been published by the University Press.

Roesingrave was born in 1690, son of an organist of Winchester Cathedral and in 1707 entered Trinity College, Dublin. From 1710 to 1725 he was in Italy, where he came under the influence of Scarlatti and Palestrina. He returned to Ireland and died in 1766.

With one exception, the music in the volume was recorded by Dr. Leonard Raver, Chapel organist, on the famous Fenton House collection of harpsichords.

The compositions include Voluntary IV; Fugue X; Double V; Introduction to Scarlatti's "Lessons"; and four studies of lessons.

Dr. Nicholas A. Masters, associate professor of political science, is chief author of "State Politics and the Public Schools," which was published March 20 by Alfred A. Knopf, New York. Co-authors are Dr. Robert H. Salisbury, associate professor of political science at Washington University, St. Louis, and Dr. Thomas H. Eliot, chancellor of Washington University.

The book was made possible by a Carnegie Corporation grant to Washington University to finance two years of research prior to its publication.

Dr. Masters served as research associate for James B. Conant (in his study of the education of American teachers) who says of the book, "It is time that the citizens concerned with excellence in education were familiar with the realities of state politics and the public schools. This new exploratory analysis, therefore, serves a most useful purpose and deserves to be widely read."

Examined in the book are the

Barbecue service

An underground pit for barbecuing beef has been constructed in the New Hort Woods adjoining University Drive, about half way between the campus beef cattle barn and New Beaver Field. This facility is available for demonstrational food service to University related groups of 100 to 1,000 persons during the spring, summer, and fall months.

Set up as an approved University facility, this beef barbecuing service is available at a nominal charge for time and materials. Orders for barbecues should be made three weeks in advance of the desired date at room 101 of Forestry Building, 865-7541, giving full details. Catering service will be arranged on request. An illustrated write-up describing beef barbecuing is available.

The barbecuing service will be operated by students from the Forestry Society and the Block and Bridle Club and will be supervised by Peter W. Fletcher and Glenn R. Kean of the College of Agriculture faculty. The barbecue pit was built with funds from the Forestry Society.

Exhibition

The exhibition of Crafts and Photography of members of the faculty opened this week at the HUB gallery and will continue on display until April 15. Included are pottery, photos, and wall hangings.

COURSE OFFERINGS

Course Offering Request Forms for the 1965 Spring Term are due in the office of the Vice President for Resident Instruction on or before Wednesday, April 15, 1964. Heads of departments must have their recommendations to the office of their respective deans prior to that date.

FOLK DANCES

The Interlandia Folk Dance program will resume today (Friday) at 7:30 p.m. in Room 302 Engineering "A." All interested persons are invited.

CONSERVATION CAMP

The 17th annual Pennsylvania Junior Conservation Camp will be held June 21 through Aug. 15 in the Stone Valley Recreation Area. More than 170 high school boys will attend the camp, which is sponsored by the Pennsylvania Federation of Sportsmen's Clubs.

SEISMIC TRUCK

An experimental seismic recording truck, to be used for instructional and research purposes in geophysics, has been donated by the field research laboratory of the Socony Mobil Oil Co., of Dallas, Tex.

PERSONNEL MATTERS



Dr. Grant W. Smith, professor of chemistry, has been elected Fellow of the American Association for the Advancement of Science.

Stephen T. Cockerham, 1961 graduate of Purdue University, has been appointed assistant county agent in Lackawanna County. For over a year he was a Peace Corps volunteer in El Salvador, Central America.

Charles A. Boyles, currently a candidate for the doctor of philosophy degree in mathematical physics, has been named research assistant in the Ordnance Research Laboratory. He is a Penn State graduate.

Paul A. McNichol, television project engineer, consultant and supervisor of operations and television facilities for the U. S. Joint Communications Agency, Fort Ritchie, Md., has been appointed chief of educational broadcast systems in the division of broadcasting. He will be responsible for planning and designing broadcast systems, including Channel 3.

Dr. Russell B. Dickerson, associate dean and director of resident education in the College of Agriculture, will be on leave for the next year to supervise the fellowship program of the Agricultural Development Council, Inc. of New York. He will travel to Asia to interview social scientists applying for fellowships for study in this country; oversee preparation of materials related to fellowships prior to review by a committee in the Agricultural Development Council; and he will visit 39 Asian scientists currently studying under ADC fellowships at 17 American universities.

Reid collection

The late Dr. James J. Reid, professor of bacteriology, will be memorialized in the establishment of a Memorial Book Collection in the Department of Microbiology.

Funds to initiate the collection are being accepted from Dr. Reid's friends and former students and will be deposited in a special account in the Alumni Fund office. Dr. L. E. Casida, Jr., is in charge of the collection.

Those wishing to contribute should send their checks to the department, made payable to The Pennsylvania State University and marked for the Reid Book Collection.

GRANTS



D. R. McClay, agricultural education, \$12,450, Penna. Dept. of Public Instruction, for research on pre-employment and continuing educational needs in agricultural occupations.

Thomas Wartik, chemistry, \$2500, Esso Research and Engineering Co., to support graduate training and research.

L. F. Herzog, II, geology and geophysics, \$15,156, U. S. Public Health Service, for research on carbon, oxygen, nitrogen and sulfur isotope ratios in humans.

H. S. Hoffman, psychology, \$20,826, U. S. Public Health Service, for research on generalization gradients for competing responses.

E. H. Ludwig, microbiology, \$7,838, Geschickter Fund for Medical Research, Inc., for studies of occurrence of arboviruses in birds.

L. E. Casida, microbiology, \$17,309 Geschickter Fund for Medical Research, Inc., for microbial soil ecology.

W. Y. Ginoza, biophysics, \$18,000, Atomic Energy Commission, for radiation studies on transforming DNA on tMV-RNA and X174-DNA.

W. H. Powers, continuing education, \$3,160, National Science Foundation, for survey and study of continuing education in the sciences.

S. C. Sun and D. R. Mitchell, mineral preparation, \$20,000, Penna. Electric Co., for research in utilization of power plant waste products.

James Tannen, plant pathology, \$805.82, Dillion Research Fund of the Penna. Flower Growers, for research on virus-free production of geranium.

R. J. Flipse, dairy science, \$15,715, U. S. Public Health Service, for studies of amino acid metabolism by spermatzoa.

J. C. Croft, educational services, \$2,947, U. S. Office of Education, for research on open and closed mindedness and perceptions of leader behavior.

Leon Frankston, art education, \$6,899, U. S. Office of Education, "Effects of two programs and two methods of teaching upon the quality of the art products of adolescents."

L. H. Jones, Jr., art education, \$6,046, U. S. Office of Education, for studies of student and teacher interactions during evaluative dialogues in art.

Lionel Goodman, chemistry, \$16,200, National Science Foundation, for certain studies of transitions in the azines.

Lovell, H. L., mineral preparation, \$20,000, Penna. Coal Research Board, for studies of the reduction of ash and sulfur in bituminous coals during preparation.

Hosler, C. L., meteorology, \$8,750, Penna. Coal Research Board, for studies of the dissipation and removal of fog from airfields by the application of energy derived from coal.

Robert Stefanko, mining, \$25,000, Penna. Coal Research Board, for investigation of effective measures to combat mine disasters.

M. R. Fenske and W. C. Braun, chemical engineering, \$45,000, American Petroleum Institute, for preparation of a technical data book for petroleum technologists.

R. W. Lindsay, metallurgy, \$800, Bethlehem Steel Co., Inc., for support of the cooperative program in metallurgy.

E. F. Danielsen and R. T. Duquet, meteorology, \$18,382, N.A.S.A., for analysis of time variability of atmospheric parameters.

H. L. Barnes and C. W. Burnham, geochemistry and mineralogy, \$102,496, U. S. Dept. of Interior, for studies of properties of aqueous solutions at high pressures and temperatures.

N. C. Deno, chemistry \$44,800, National Science Foundation for research on carbonium ions.

H. B. Sprague, agronomy, \$3,600, Cooperative G.L.F., to support research on corn breeding.

Dean Asquith, entomology, \$1,000 The Upjohn Co., for research on insecticides in fruit growing.

J. H. Jones, R. H. McCormick and M. R. Fenske, chemical engineering, \$75,000, Esso Research and Engineering Co., for studies of separation and conversion processes.

William Spackman, geology and geophysics, \$63,400, National Science Foundation, for research on characteristics of modern organic sediments.

E. L. Keffler, Continuing Education, \$2,445, Penna. Department of Public Welfare, for institute on the history and development of job.

F. A. Joy, Institute for Building Research, \$10,150, Insulation Board Institute, for research on ridge formation in built-up roofing.

Thomas Smythe, Jr., biophysics, \$2,625, Tektronix, Inc., equipment for graduate training and research in biophysics.

J. S. Schanz, mineral economics, \$3,000, Continental Oil Co., to support fellowship in the field of petroleum economics.

Thomas Wartik, chemistry, \$4,000, Sun Oil Co., for support of first-year graduate student.

B. W. Niebel, industrial engineering \$6,000, Bethlehem Steel Co., twelve bars of normalized steel to be used in metal-cutting research.

E. W. Mueller, physics, \$18,648, U. S. Air Force, for investigation of filamentary crystals by field ion microscopy.

F. B. Fischer, Continuing Education, \$2,500, U. S. Office of Civil Defense, for fall-out shelter analyses course.

H. K. Schilling, Graduate School, varied amounts, International Business Machines Corp., for support of a fellowship.

H. K. Schilling, Graduate School, \$6,500, A.S.I.M., to support fellow in final year of full time graduate work leading to doctor's degree relating to the knowledge of materials.

R. J. Watson, geology and geophysics, \$60,000, Socony Mobil Oil Co., Inc., gift of an experimental seismic recording truck.

W. E. Meyer, mechanical engineering, \$4,310, U. S. Public Health Service, for studies of crankcase emissions from Diesel engines after prolonged service.

Thomas Wartik, chemistry, \$2,500, The Dow Chemical Co., to support scholarships or fellowships in chemistry.

CALENDAR



Friday, April 3

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering A.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Keith Bullen, professor of applied mathematics, University of Sydney, on "The Earth's Core."

Sunday, April 5

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Harold K. Schilling, dean of the Graduate School, on "Wonder and Mystery in Theology and Science."

Monday, April 6

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Paul W. Pierson, head of the division of landscape planning, on "A Tour of the Campus."

Tuesday, April 7

University Senate meeting, 3:35 p.m., Room 121 Sparks.

AACP annual business meeting, 7:30 p.m., Room 124 Sparks.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. M. G. Wolman, The Johns Hopkins University, on "The Effects of Dams on River Channels."

Wednesday, April 8

Symposium on "Peace: Problems and Prospects," 8 p.m., Room 101 Chambers. Elton Atwater, Ari Hoogenboom, and Marvin Rozen, with A. H. Reede as moderator.

Talk on "The Economic Necessity to Disarm," by Mrs. Donna Allen, Women's International League for Peace and Freedom, Legislative Committee Chairman, 8 p.m., Room 121 Sparks, sponsored by Women's International League, SENSE Students for Peace, and Friends Peace Committee.

Thursday, April 9

Biological Science Lecture Series, 3:55 p.m., Room 214 Boucke. Dr. A. E. Axelrod, professor of biochemistry, University of Pittsburgh, on "Nutrition and the Immune Processes."

Talk by Dr. Marion Fay, president and dean of Women's Medical College of Pennsylvania, 8 p.m., HUB, sponsored by the Associated Women's Society.

College of Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Friday, April 10

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. G. Comte-Bellot, post-doctoral fellow, department of mechanics, The Johns Hopkins University, on "Some Statistical Properties of the Turbulent Pipe Flow."

U. C. A. Film Festival, 7 and 9 p.m., HUB assembly room. "The Doctor's Dilemma."

ARTISTS SERIES

Tickets for the University Lecture Series presentation by Howard K. Smith, news analyst and author, to be given Friday, April 10 at 8:30 p.m. in Schwab Auditorium, will go on sale at the HUB desk Wednesday, April 8, at 9 a.m. He will speak on "The Changing Challenges to America."

ITEMS OF INTEREST



ELECTED AND APPOINTED

ARNOLD, MILDRED G., home equipment and consumer services, elected vice-chairman, American Standards Consumer Goods Board of the American Standards Association.

HARTMAN, H. L. Engineering, elected secretary-treasurer, Council of Education, and appointed vice-chairman, Coal Division Scholarship Committee, both of the American Institute of Mining, Metallurgical and Petroleum Engineers.

KELZ, J. W., counselor education, reappointed State membership chairman, for the National Vocational Guidance Association for 1964-65.

McMULLEN, J. H., Health and Physical Education, appointed chairman of the registration Committee of the American Football Coaches Association.

MOURANT, J. A., philosophy, elected to the Editorial Board, Encyclopedia of Philosophy.

PALLADINO, N. J., nuclear engineering, appointed to the Nuclear Engineering Education Committee, Associated Midwest Universities, for four-year term.

RACKLEY, J. R., vice president, appointed to committee to conduct a special study of the education of the deaf in the U. S., by Secretary Anthony J. Celebrezze.

ROY, RUSTUM, Materials Research Laboratory, appointed to the National Research Council's Division of Chemistry and Technology.

RUNG, T. J., Continuing Education, elected to the Board of Directors, Area Five, Pennsylvania League for Nursing.

WELLINGTON, A. M., Counselor Education, elected Senate Delegate to represent the Student Personnel Association for Teacher Education at the 1965 American Personnel and Guidance Association Senate Meetings in Minneapolis.

THE ARTS

CATALDO, J. W., art education, display in the 10th annual exhibit of Advertising and Editorial Art of the Art Directors Club of Boston, two cover designs of School Arts Magazine, January and October, 1963, issues.

FRANKSON, LEON, art education, an oil painting, "Edel-weiss," exhibited in the Ruth Sherman Gallery, New York, during March.

—an oil painting, "Seated Woman with Flower Pot," in the traveling exhibition of the Midstate Artists Association of Pennsylvania, visiting colleges in the State.

MANDEL, A. R., concerts at Bucknell University, March 15, and at Sarah Lawrence College, Bronxville, N. Y., March 9.

MONTENEGRO, ENRIQUE, art, exhibiting in the traveling exhibition, "The Painter and the Photograph."

RAVER, LEONARD, music, recital at the Cleveland Museum of Art, March 11.

LECTURES AND TALKS

ANTHONY, ADAM, zoology, "The Acclimation of Animals to Simulated High Altitudes,"

before a research seminar, Lankenau Hospital, Philadelphia.

BRANDON, G. L., vocational education, "Consolidation of Resources for Research in Vocational Education," before a Seminar in Research Administration of Vocational Education at Ohio State University.

COHEN, D. L., sociology and anthropology, "A New Strategy of Patient Pairing in a Male Admission Ward of a State Mental Hospital to Improve Treatment Effectiveness," before the Hollidaysburg State Hospital Nurses Association.

DE LISSEVOY, VLADIMIR, child development and family relationships, "Sex Education —Can It Be Taught," at the sixth annual refresher conference in home economics at Willow Grove, Pa.

—"The Adolescent in the Sexual Milieu," at West Chester, Pa.

DEBUN, S. S., Continuing Education, "Determining Needs for Adults in Continuing Professional Education," at the American Education Research Association meeting in Chicago.

FINSKE, M. R., chemical engineering, "The Influence of Government on Engineering Research," before the Michigan Section, American Institute of Chemical Engineers.

FRANKSTON, LION, art education, "Roots and Wings," on the development of creativity, before the American Camping Association in Pittsburgh.

GEORGE, J. L., wildlife management, "Developments in Pesticide-Wildlife Relationships" at meetings of the New Jersey Mosquito Association.

HASSLER, W. W., American history, "The Treason of Benedict Arnold," before the Centre County Sons of the American Revolution, Daughters of the American Revolution, and Colonial Dames.

HUDSON, G. R., counselor education, "Guidance and the Classroom Teacher," before the Teachers' Institute, Ligonier, and "Guidance in Secondary Schools," before the Teachers' Institute at Dover.

KNEEBONE, L. R., botany and plant pathology, on mushrooms before mushroom growers in Canada, New York State, and Chester County, Pa.

MALCOLM, R. E., accounting, "Exponential Averaging for Managerial Control," before the Johnstown Chapter of the National Association of Accountants.

MARIN, JOSEPH, engineering mechanics, six lectures on "Engineering Analyses for Creep in Structures" at the University of Florida in a course sponsored by N.S.F.

MASLAMERZ, J. W., floriculture, "Leaf Analysis for Greenhouse Flower Crops" at the Michigan State Florists' Association 44th annual meeting.

—"Progress in Floriculture Research," before the Milwaukee Greenhouse Florists Association.

MCDONALD, F. T., speech education, a short course on "Articulation Testing and Treatment: A Sensory-Motor Approach," at the annual convention of the Pennsylvania Speech and Hearing Association in Harrisburg.

ROSE, ARTHUR, chemical engineering, lectures on "Distillation Fundamentals and Developments" before the North Jersey Section, American Chemical Society.

SHAMMA, MAURICE, chemistry, "Recent Developments in Indole Alkaloid Chemistry" at the Symposium on the Chemistry and Biological Activity of *Vinca* and Related Indole Alkaloids, sponsored by the American Society of Pharmacognosy, Pittsburgh, in June; also given before CIBA Pharmaceuticals Co., Feb. 25.

—participate in the Third International Symposium on the Chemistry of Natural Products, Kyoto, Japan, April 12-18.

SKILL, P. S., chemistry, "Topics in Mechanistic Organic Chemistry," as one of series of Spring Lectures sponsored by chemistry department of University of Colorado.

SMITH, A. P., engineering at Ogontz, "Engineering and Technical Training," a panel sponsored by B'nai B'rith Vocational Service 1964 Institute for High School Students at Elkins Park, Pa., March 22.

SOMMER, L. H., chemistry, "Stereochemistry of Asymmetric Silicon" in the "Frontiers in Chemistry" lecture series sponsored by the chemistry department of Western Reserve University.

VEATCH, JUANETTE, education, "Reading, Writing, Listening, and Speaking Make a Good Instructional Reading Program" and "The Best We Know in Reading Instruction" at Hartsdale, N. Y., schools.

WILLIAMSON, M. A., Engineering, keynote address at dedication of new engineering building and facilities, Boston University.

ZHUKO, H. P., speech, "The Place of Communication in Management Development" at conferences on "Personnel Management for Executives" at Oklahoma University and at the Army Finance Center, Indianapolis.

ARTICLES AND PAPERS

ADDISON, ARNOLD, Ordnance Research Laboratory, "The Role of a University Laboratory Engaged in Classified Research," in the February issue of the Journal of Engineering Education.

CASIDA, L. E., JR., microbiology, with JAMES, A.W., "Accumulation of Phosphorus Compounds by *Mucor Racemosus*," in the January issue of the Journal of Bacteriology.

COOK, F. H., business law, "Are Earnings Adequate for Hydroelectric Systems," in the Feb. 27 issue of Public Utilities Fortnightly.

COOPER, E. L., zoology, with GROSSLIGHT, J. H., Kent State, "Differential Survival of Rainbow Trout Fed Living Organisms and Hatchery Diets," in the October issue of The Progressive Fish-Culturist.

CRAIG, RICHARD, plant breeding, and WALKER, D. E., horticulture, "The Flowering of *Pelargonium hortorum* Bailey Seedlings as Affected by Cumulative Solar Energy," in the Proceedings of the American Society for Horticultural Science.

DAY, R. L., marketing, "Analysis of Marketing Strategy through Gaming," before the 11th Annual International Meeting of the Institute of Management Sciences in Pittsburgh.

DEBUN, S. S., Continuing Education, "Person-to-Person Training is Valuable," in Trained Men.

ENGASS, ROBERT, art and architectural history, "The Church Triumphant in Late

(Continued on page five)

(Continued from page five)

SEVIR, MAURICE, Ordnance Research Laboratory, "Lift on an Oscillating Body of Revolution," in the February issue of the AIAA Journal.

SIMKINS, P. D., geography, "Distribution of the Aged in Pennsylvania" at the Pennsylvania Academy of Science meetings.

SINK, J. D., WATKINS, J. H., and MILLER, R. C., animal industry, "Analysis of Fat Deposition in Swine by Gas-Liquid Chromatography" in the February issue of the Journal of Animal Science.

SNETSINGER, ROBERT, entomology, with MINER, DONALD, "Tests with Dichlorvos Vapors for the Control of Mushroom Flies," in the February issue of the Journal of Economic Entomology.

SNOWDON, J. C., Ordnance Research Laboratory, "Approximate Expressions for the Mechanical Impedance and Transmissibility of Beams Vibrating in Their Transverse Modes," in the February issue of the Journal of the Acoustical Society of America.

SOPPER, W. E., forestry, with LULL, HOWARD, U. S. Forest Service, "Streamflow Characteristics of Physiographic Regions in the Northeast" and with KARDOS, L. T., soil technology, and PENNYPACKER, STANLEY, "Renovation of Sewage Effluent for Groundwater Recharge through Irrigation of Forestland," both papers before the 45th annual meeting of The American Geophysical Union at Washington, D. C., in April.

STACHIW, J. D., Ordnance Research Laboratory, "Glass and Ceramics for Underwater Vehicle Structures," in the January issue of Undersea Technology.

TAYLOR, CLARICE G., hotel and institution administration, "Automation and New Developments in Food Production and Processing," at the Coatesville Veterans' Administration Hospital Dietetic Conference.

THEODORE, G. A., sociology, "The Feasibility of International Cooperation in Cross-Cultural Research," in the second quarter issue of the Journal of Human Relations.

TUKEY, L. D., pomology, "Factors Affecting Rhythmic Diurnal Enlargement and Contraction in Fruits of the Apple (*Malus domestica*, Bork.) in the Proceedings of the 16th International Horticultural Congress.

VEATCH, JEANETTE, education, "How to Teach Reading with Children's Books," a pamphlet of the Bureau of Publications, Teachers College, Columbia University.

WACHTER, G. F., engineering at York Evening School, "Pump Turbines for Smith Mountain," in the Allis-Chalmers Mfg. Co. publication, Electrical Review.

WARD, W. F., forestry, "Live Crown Ratio and Stand Density in Young, Even-aged, Red Oak Stands," in the March issue of Forest Science.

WASHKO, J. B., agronomy, "Forage Testing Programs to Determine Forage Quality for the Farmer or Rancher" at the annual meeting of the American Society of Range Management, in Wichita.

WHITNEY, H. A., geography, "Shifts in Transportation Routes: The Rhode Island Example," at the Pennsylvania Academy of Science meetings.

WILLIAMS, W. A., vocational education, "Safety and Health Needs in Equipping the School Shop" a chapter in the book, "Modern School Shop Practice, published by Prakken Publications.

WILLOWER, D. J., educational administration, "Barriers to Change in Educational Organizations," in the December issue of Theory-into-Practice.

—"Lay and Professional Decisions in Education," in the January issue of the Peabody Journal of Education.

ZAFFRONI, JOSEPH, elementary education, a 60-page report, "New Developments in Elementary School Science," published by the National Science Teachers Association, Washington, D. C.

New novelist

Robert Pinget, French "New" novelist, will speak on "The Poet Max Jacob," Tuesday, April 14, at 8 p.m. in Room 111 Boucke, sponsored by the French department.

The dramatist Pinget, translator of Samuel Beckett, was born in Geneva and earned a law degree. He taught in England, then travelled in Europe and Africa and in 1960 spent six months in the U. S. on a Fulbright grant.

Work accepted

Prints by three graduate assistants majoring in painting and printmaking in the department of studio art have been accepted in national juried print exhibitions.

Alvin Dunkle, Robert Ecker, and Viliu Niiler recently exhibited prints in the tenth annual Bradley University National Exhibition of prints. Miss Niiler and Dunkle are exhibiting at Western Michigan University in the First National Print Exhibition, and Dunkle is exhibiting in the Northwest Printmakers 35th International Exhibition at the Seattle Art Museum.

LIBRARY TALK

Graduate students are invited to attend a talk on library materials and take part in a tour of Pattee Library Wednesday, April 8 at 7:15 p.m. in Room 6 Pattee. Students should sign at the Reference or Information desk so that enough guides will be provided. Instruction in the library is offered to classes, as described in the "Library Handbook for Faculty and Graduate Students."

faculty BULLETIN

Vol. 51, No. 37 April 3, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

CALENDAR



Friday, April 10

University Lecture Series, 8:30 p.m., HUB ballroom. Howard K. Smith, news analyst and commentator.

Interlandia Folk Dance, 7:30 p.m., Conference Center.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. G. Comte-Bellot, The Johns Hopkins University, on "Some Statistical Properties of the Turbulent Pipe Flow."

Graduate Student Association dance-mixer, Elks Club, 9-12. No minors.

College of Agriculture Faculty meeting, Room 109 Armsby, 4 p.m.

Film Festival showing of "The Doctor's Dilemma," based on the Shaw play, 7 and 9 p.m., HUB assembly room. Discussion led by Warren Smith, professor of theatre arts.

Saturday, April 11

Varsity athletics: baseball, vs. Ithaca, 2 p.m.; lacrosse, vs. Lafayette, 2 p.m.

Sunday, April 12

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Deane W. Ferm, Mount Holyoke College, on "If the Bomb Does Not Fall."

Opening session of three-day conference on the Vatican Council, Msgr. George C. Higgins, National Catholic Welfare Council, on "The Vatican Council and Its Significance," 8 p.m., Schwab Auditorium.

Monday, April 13

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Msgr. George C. Higgins, National Catholic Welfare Council.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Roland D. Parks, Massachusetts Institute of Technology, an illustrated lecture on the Mineral Industry of India.

Psychology lecture, 8 p.m., Room 112 Chambers. Dr. James J. Jenkins, University of Minnesota, on "Syntactic and Semantic Dimensions of Sentence Similarity."

(Continued on page four)

Film festival

The first of four programs in a Film Festival, designed to bring highly significant and provocative material for discussion by students and faculty will be shown today (Friday) at 7 and 9 p.m. in the HUB assembly room. "The Doctor's Dilemma," the play based on the George Bernard Shaw work, will be the subject of discussion led by Warren Smith, professor of theatre arts. The discussion will be held in Room 218 HUB.

Tickets, priced at 35 cents, may be obtained at the HUB desk or from sponsoring agencies of the University Christian Association.

The second film will be shown Tuesday, April 14, also at 7 and 9 p.m. It is an Ingmar Bergman film, "Illicit Interlude."

Aquacade

The annual Aquacade presented by the synchronized swimming club of the Women's Recreation Association, Naiads, will be held Thursday, Friday, and Saturday, April 23, 24, and 25, at 8 p.m. in White Hall Pool.

Theme of this year's show is "Tone Poems of Color," and the various numbers will depict the many moods of various colors, pink, blue, orange, gold, and silver.

Free tickets, limited in number for each performance, will be available Monday, April 20, from 1 to 3 p.m.; Tuesday, April 21, from 2 to 4 p.m.; and Wednesday, April 22, from 3 to 5 p.m. in the main lobby of White Hall.

FISH LIFE

Robert L. Butler, leader of the Pennsylvania Cooperative Fisheries Research unit, will speak Monday, April 13, at 7:30 p.m. in Room 105 Forestry on the subject of water quality and fish life. The Wildlife Management Seminar and the Mt. Nittany Sportsmen's Club are sponsors.

PHOTOGRAPHY

Forty-five photographs by Milton Rogovin, Buffalo, N. Y., on the theme, "Store Front Churches," are on display at Room 105 Temporary. The photos appeared in "Aperture," a quarterly publication on creative photography.

ALUMNI FUND

Total contributions to the 1964 Alumni Fund have reached \$216,611.02 as of Monday, April 6.

KING OF PRUSSIA

Enrollment at King of Prussia Graduate Center is 92, an increase of 12 over registration for the Winter Term.

SUMMER FELLOWSHIPS

Four of the 292 teachers of science and mathematics who were granted summer fellowships by the National Science Foundation for study this summer are planning to enroll at Penn State. All are Pennsylvanians.

Vatican meeting

Four outstanding speakers, representing the Roman Catholic, Jewish, Orthodox, and Protestant faiths will discuss the two sessions of the Vatican Ecumenical Council April 12, 13, and 14 in Schwab Auditorium.

The speakers will be Msgr. George Higgins, director of the National Catholic Welfare Council, in Washington, D. C.; Rev. Alexander Schmemmann, member of the faculty of St. Vladimir Seminary, New York; Rabbi Marc Tannenbaum, director of the department of Interreligious Affairs, American Jewish Committee, New York; and Dr. Heijo Oberman, Harvard Divinity School.

The three-day seminar is sponsored by the faculty committee of the University Christian Association. Each of the speakers will discuss the effects and implications of the Council meetings, then join in a panel discussion in which members of the audience will be invited to participate.

Msgr. Higgins' address will be given Sunday at 8 p.m.; the presentations by Schmemmann and Oberman Monday at 8 p.m.; and the final talk by Rabbi Tannenbaum Tuesday, at 8 p.m., all in Schwab. The four speakers will conclude the program with a panel discussion.

A panel of students will discuss the general topic Tuesday, at 4 p.m., in Schwab.

Hate groups

Two talks on hate groups will be given within the next fortnight, the first April 16 at Hillel Foundation, the second April 19 at part of a two-day conference sponsored by the Committee on Interreligious Affairs.

Gordon Hall, lecturer and researcher on extremist and hate groups will speak on "The Threat from Hate Groups in America," as keynote lecturer for the conference titled, "Colloquy on the Extreme Right." The public is invited to hear the talk, which will be followed by questions from student panelists. The lecture will begin at 7:30 p.m. and will be held in Schwab Auditorium.

Hall was the subject of a feature article in the *Saturday Evening Post* in 1962 in which his activities in exposing extreme groups were discussed.

John Roy Carlson, author and lecturer, will speak at Hillel Foundation at 8 p.m., Thursday, April 16 on the subject, "Thunder from the Right." He will discuss the rise of hate groups and the activity of the radical right.

Sponsor of the lecture is Hillel Graduate Student's Association and the public is invited.

PERSONNEL MATTERS



Dr. Edgar B. Hale, professor of animal behavior, has been appointed assistant to the vice president for research to be concerned primarily with grants and facilities for the expanding research program of the University. He will retain his academic rank. Dr. Hale joined the faculty in 1949 as assistant professor of poultry husbandry and psychology research. He is a graduate of Texas A. and M. College, received the master of science degree from Michigan State, and was conferred a Ph.D. with a major in zoology and animal behavior by the University of Chicago. From 1937 to 1942 he was graduate assistant and research assistant at Michigan State and from 1942 to 1945 served in the U. S. Army.



Dr. Hale

Dr. Robert Stefanko, associate professor of mining engineering, has been appointed head of the department of mining, effective immediately, continuing until June 30, 1968. A graduate of the University of Virginia, he has received bachelor, master, and doctoral degrees in mining engineering from Penn State. He joined the faculty in 1957 as instructor in mining engineering. From 1918 to 1954 he was a mining engineer, assistant mine foreman, and purchasing agent with the Westmoreland Mining Co., Blairsville.

Dr. Benjamin H. Massey, who has served on the University of Maryland faculty since 1950, has been named distinguished visiting professor of health and physical education for the Summer Term. He has been coordinator of graduate study in the College of Physical Education, Recreation and Health at Maryland and director of the Physical Education Research Laboratory. Previously he served on the University of Illinois faculty and was research fellow in the Division of Research of Lankenau Hospital, Philadelphia.

Dr. Francis Di Vesta, professor of education psychology at Syracuse University, has been appointed professor

of education and psychology, effective June 16. He is a graduate of the University of Connecticut and received master's and doctor's degrees from Cornell University. From 1954 to 1957 he was consultant with the U. S. Air Force for in-service research projects and surveys, while at George Washington University. He has also served at Bucknell University and at Maxwell Air Force Base in a human resources research program.

Dr. Richard E. Ball, professor and head of the department of finance at the University of Cincinnati, has been named visiting professor of finance for the Spring Term. He has held his present position since 1959 and previously served on the business administration faculties at Michigan State and Notre Dame. He is a Notre Dame graduate, received his master of arts degree in economics from Indiana University, and doctor's degree in economics from Notre Dame. His research has been in the field of investment management and a book on the subject will be published this fall.

Dr. John Withall, a Peace Corps educational advisor to the secondary education project at Ivory Coast, will be visiting professor of educational psychology for the Spring and Fall Terms. He has served as research director of the mental health and teacher education project at the University of Wisconsin and from 1956 to 1959 was executive director of the U. S. Educational Foundation in Pakistan. He has taught at the University of Delaware and at Brooklyn College. He received two degrees from Bishop's University, in Canada, and was granted the doctor of philosophy degree from the University of Chicago.

Dr. Frank F. Ehrenthal, internationally-known architect who has been visiting professor for the past two terms, has been appointed professor of architecture, effective Sept. 1. Born in Hungary, he has had his own practice in San Francisco since 1948, and his firm designed major hotels, stores, shopping centers, industrial sites, medical buildings, and educational and religious centers. In 1952 he was awarded the Grand Prize in the Architectural Forum Competition and received honorable mention from the Franklin Delano Roosevelt Memorial Competition in 1960. He received the doctor of architecture degree from the University of Florence, Italy.

C. Herbert Wheeler, Jr., who has been in charge of building systems and products development at Curtiss-

Wright Corporation, Caldwell, N. J., has been appointed associate professor of architectural engineering. In part, he will conduct research in the Institute for Building Research. A graduate of the University of Pennsylvania, with a master of science in architecture from M.I.T., he is a registered architect in Pennsylvania, New York, New Jersey, and Michigan and has lectured at Harvard and Michigan State. He taught a course in contemporary housing trends in the State College adult education program for several years.

Pentti A. Honkanen, staff engineer for International Business Machines Corp., has been named research assistant in the Ordnance Research Laboratory. His bachelor's degree was granted by the University of Colorado and his master of electrical engineering by Syracuse University. He has served as part-time instructor in applied mathematics at the University of Colorado.

Dr. John D. Sink, assistant professor of animal industry, has been awarded a National Science Foundation Postdoctoral Research grant for study in science. He received all three degrees from Penn State and joined the faculty in 1962. He will study at the University of Wisconsin, doing research in the field of fat metabolism as related to food and human health.

Wilburn W. Newcomb, assistant professor of German, is currently at the University of Goettingen, Germany, to complete work for his doctorate during the Spring Term. He was granted a stipend of 2600 German deutschmarks by the W. German government as part of the academic exchange service. Two years ago he was a Fulbright Scholar at the University of Goettingen. Newcomb has contributed numerous articles for the final volumes of the monumental German music encyclopedia, "Musik in Geschichte und Gegenwart."

Dr. John D. Snowdon, assistant professor of engineering research at the Ordnance Research Laboratory, has been elected a Fellow of the Acoustical Society of America. The Society cited him "for his creative work in developing practical theories for design and application of materials and components in shock and vibration control, and his contributions to Acoustical Society committee efforts and to the solution of U. S. Navy problems in shock and vibration control."

THE ARTS



lecture

The University Lecture Series talk by Howard K. Smith, news analyst and commentator, will be given in the HUB ball room (instead of Schwab Auditorium) tonight (Friday) at 8:30 p.m. He will speak on "The Changing Challenges to America." Tickets remain on sale at the HUB desk.

blue band

The Penn State Concert Blue Band, directed by James W. Dunlop, will present its Spring Concert in Schwab Auditorium Apr. 19 at 3 p.m. Christine F. Burkholder, senior in music education, will be soloist as cornetist in the presentation of Haydn's "Concerto for B-flat Cornet." Other numbers on the program will be, in addition to the traditional National Anthem and "Stars and Stripes Forever," the following:

Berlioz's Rakoczy March from the "Damnation of Faust."

Josquin Turina's "La Procession du Rocio."

Robert Ward's "Night Fantasy."

Norman Dello Joio's "Variants on a Medieval Tune."

Johannes Hanssen's "Valdres."

Robert Washburn's "Pageantry."

theatre

The State College Community Theatre production of the Abbott-Loesser play, "Where's Charlie," will be directed by James L. Johnson, instructor in speech, and include four faculty and staff members in the cast.

Lynn Christy, associate professor of English composition, will play Mr. Spettigue; Virgil Neilly, associate professor of continuing education in engineering, will play Sir Francis Chesney; Joseph Servello, graphic artist in UDIS, has the lead role of Charley Wykeham; and Bernard Resnick, food supervisor in Housing and Food Service, is a member of the chorus.

The musical comedy will be given Friday and Saturday, April 17 and 18, at the State College High School Auditorium beginning at 8 p.m.

raver concert

Dr. Leonard Raver, Chapel organist, will present an organ concert Saturday, April 25, at 8:30 p.m. in Schwab Auditorium. The program will include music of Bach, based on a program played by Felix Mendelssohn in the Thomaskirche, Leipzig, Germany.

artists series

Joseph and Lillian Fuchs, violinist and violist respectively, will be featured in the Artists Series Friday, April 17, at 8:30 p.m. in Schwab Auditorium.

Tickets for the concert will be on sale to the public Wednesday and Thursday, April 15 and 16 at the HUB desk.

theatre arts

Two productions of contrasting nature will be given at Pavilion Theatre during the Spring Term. Jean Anouilh's "Thieves Carnival," a comedy, will be directed by Mesrop Kesdekian, as guest director, and will run April 28 to May 2 and May 8 and 9, which is Mother's Day weekend.

Tennessee Williams' "The Glass Menagerie," will conclude the year's program with performance May 26-30.

Rockefeller show

Paintings and sculpture from the private collection of Nelson A. Rockefeller will begin May 10 in the HUB gallery. A reception to mark the opening of the exhibition will be held from 7 to 9 p.m. May 10.

BOOKS



Dr. David S. Palermo, associate professor of psychology, and James J. Jenkins, of the University of Minnesota, are authors of a book, "Word Association Norms: Grade School through College," published by the University of Minnesota Press. The book contains a listing of the frequency of all responses to 200 words given 250 boys and 250 girls in each of the grades 4-8, 10, and 12 and to 500 male and 500 female college students, in Minnesota public schools and the introductory psychology classes at the University of Minnesota. The work was performed in an effort to stimulate research and provide the raw materials for a wide variety of psychological, clinical and verbal behavior problems.

Dr. Clyde G. Corle, associate professor of education, is the author of "Teaching Mathematics in the Elementary School," a new book published by Ronald Press. It presents a program of math for the elementary school and the methods of teaching the material. It is intended not only for experienced teachers but also teachers-in-training.

India program

India Weekend, sponsored by Friends of India, will be held tomorrow (Saturday) and Sunday to focus attention on India and foster greater cultural association. A variety of activities is planned, beginning Saturday with a fashion parade, instrumental music, songs, and folk dances at 7:30 p.m. in the Conference Center.

A film, Satyajit Ray's "Aparajito," will be shown at 3 p.m. Sunday in the HUB assembly room. This film was the winner of the grand prize in the 1958 Venice Film Festival.

An exhibition of Indian handicrafts and paintings will be held in the HUB gallery area Saturday through April 15.

Admission to the Saturday program will be \$1.00 for non-members and 50 cents for members and may be purchased at the Conference Center.

Leadership

Phi Delta Kappa, professional education society, will hold its first annual Leadership Recognition Banquet Thursday, April 16th at 6:30 p.m. in the HUB, at which 26 outstanding young men in high schools and colleges of central Pennsylvania will be honored for their leadership ability and potential.

Those to be honored were nominated by members of Alpha Tau chapter based on their knowledge of the individuals. The recognition banquet is the first to be sponsored by any of the many local chapters of PDK, which is a national society.

Dr. Robert T. Oliver, head of the speech department, will address the meeting on the subject, "Leadership and Character."

Home Ec weekend

Among the special events to be included in the College of Home Economics Spring Weekend Program April 24 are a panel discussion on "Youth and Leisure Time"; a discussion by international students enrolled in home economics; a talk on high school marriages; and a talk on buying patterns of youthful consumers.

The public is invited to attend the Spring Weekend program, which will feature a talk by Mrs. Esther Peterson, special assistant to the President for Consumer Affairs and Assistant Secretary of Labor for Labor Standards, speaking on the subject, "Young People as Consumers." She will speak in Schwab Auditorium at 9:35 a.m.

CALENDAR —

(Continued from page one)

Talk by Robert L. Butler, Penna. Cooperative Fisheries Research Unit, on water quality and fish life. 7:30 p.m., Room 105 Forestry.

Second Session of Conference on Vatican Ecumenical Council. 8 p.m., Schwab Auditorium. Talks by Dr. Heijo Oberman and Vladimir Schemann.

Tuesday, April 14

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Wallace L. Anderson, New York University, on "Quantum Electronics; The Laser and Maser."

Lecture by Robert Pinget, French "New" Novelist, 8 p.m., Room 111 Boucke, on subject, "The Poet Max Jacob," sponsored by the French department.

Final session of Conference on the Vatican Ecumenical Councils. Talks by Rabbi Marc Tannenbaum, 8 p.m., Schwab Auditorium, concluding with panel discussion.

Film Festival showing of Ingmar Bergman's "Illicit Interlude," 7 and 9 p.m., HUB Assembly Room. Discussion follows.

Economics Seminar, 12:15 p.m., HUB dining room "A," Ned Shilling, on "A Generalization of Excise Tax Theory. Part I: Price and Output Effects."

Wednesday, April 15

Second symposium in series, "American Issues," 8 p.m., Room 101 Chambers; panelists Frederick C. Fliegel, E. Hans Freund, and Paul M. Harrison, with J. Mitchell Morse as moderator, on subject, "Prosperity: Poverty in an Abundant Society."

Thursday, April 16

Hillel Foundation lecture by John Roy Carlson, author and lecturer, on "Thunder from the Right," 8 p.m.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. F. R. Duke, Texas A. and M., on "Chemistry in Fused Salts."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. J. F. Hart, Indiana University, on "Culture and the Countryside."

GRANTS



G. W. Brindley, ceramic technology, \$5,000. The General Electric Foundation, for graduate study grant in materials engineering field in ceramic technology department.

M. R. Fenske, chemical engineering, \$5,000. The General Electric Foundation, for graduate study grant in chemical engineering.

A. H. Waynick, electrical engineering, varied amounts, Radio Corporation of America, for a fellowship in electronics.

C. E. Thurber, political science, \$500,000. The Ford Foundation, for study fellowships in International Development.

A. H. Waynick and J. S. Nisbet, electrical engineering, \$30,000. Electronic Systems Division, Air Force Systems Command, for ionospheric research.

W. F. Murphey and R. F. McDermott, Forestry, \$4,000. Penna. Dept. of Forests and Waters, for PFW Kerfless Cutting study.

H. L. Barnes, geochemistry and mineralogy, \$40,000. National Science Foundation, for study of solubilities of ore minerals in hydrothermal solutions.

A. M. Wellington, educational services, \$84,483. U. S. Office of Education, for counseling and guidance training institute.

C. W. Pierce, agricultural economics, \$1,500. New York-New Jersey Market Administrator's Office, for milk plant procurement studies.

H. C. Wright, geochemistry and mineralogy, \$5,288. National Science Foundation, for distribution and solubilities of trace elements in sulfide minerals.

SUMMER TERM

Advisors are reminded that students may register in advance for the Summer Term at University Park until April 17. The regular registration date is June 19.

Honored

The Institute of Fuel has notified the department of fuel technology that bachelor of science graduates of the department may gain eligibility for associate membership in the Institute without the necessity of examination.

The department is the only one in the United States having gained this distinction. The Institute was founded in Great Britain in 1927 and has a current membership of approximately 6,000 fuel technologists throughout the world.

American issues

The second of four symposia on the general theme, "American Issues," will be held Wednesday, April 15 at 8 p.m. in Room 101 Chambers, on the subject, "Prosperity: Poverty in an Abundant Society."

Panelists for the discussion will be Frederick C. Fliegel, associate professor of rural sociology; E. Hans Freund, professor of philosophy; and Paul M. Harrison, associate professor of religious studies. Moderator will be J. Mitchell Morse, professor of English.

The symposia are co-sponsored by the Program in American Studies and the Faculty Committee of the U.C.A.

Bach program

A Bach Festival, with musical performances in the afternoon and evening will be held Sunday at the State College High School Auditorium. Raymond Brown, associate professor of music, directs the State College Choral Society, which will sing Bach's "Magnificat."

faculty BULLETIN

Vol. 51, No. 38 April 10, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Reading festival

The Speech Department and University Readers are co-sponsors of the 16th Intercollegiate Interpretative Reading Festival which will be held in the HUB Assembly Hall Thursday and Friday, April 23 and 24.

Commentator for the program will be Dr. Elbert R. Bowen, professor of speech at Central Michigan University and co-author of the second edition of "Communicative Reading" published last year. At the close of each session he will discuss the criteria for evaluating effective interpretation.

Mrs. Edgar Lee Masters, associate professor of English and widow of the noted American writer, will be the banquet speaker and will discuss the successful Broadway production, "Spoon River Anthology."

Four sessions will be held during the Festival: prose, Thursday, from 2 to 4 p.m.; multiform, from 8 to 10 p.m.; poetry, Friday from 9:15 to 11:30 a.m.; drama, from 1:15 to 3 p.m. Students from many colleges and universities in the State will participate in the Festival.

Bridge lessons

Town Independent Men's Council is sponsoring, for the fifth year, a bridge lesson series to which faculty members and their wives, graduate students, and undergraduates are invited. A charge is made of 50 cents for the entire series of six lessons which will be given weekly from Sunday, April 19 to Sunday, May 24th, from 2 to 4 p.m. in the HUB card room.

1,500 on staff

Hershey plans advancing

On recommendation of the Survey Committee for the new Milton S. Hershey Medical Center and with the concurrence of the University's Board of Trustees, the general outlines have been established for the center. Three basic points are made:

The entering medical class will have 64 students.

There will be a teaching hospital of 300 beds.

The resulting medical community at Hershey will include some 1,500 persons, including students, faculty, interns, residents, research associates, technicians, and hospital personnel.

No date has been established for enrolling the first medical class, since it hinges on whether training will begin initially at University Park while construction is going on at Hershey or whether training will wait until facilities are available at Hershey.

The Committee recommended that the new center cooperate with select hospitals in the Harrisburg area that have the necessary teaching and clinical potentials.

Curie lecture

Radioactivity of the ocean will be the subject of the annual Marie Curie Lecture by Dr. Elizabeth Rona, radiochemist with the Special Training Division at Oak Ridge Institute of Nuclear Studies, Monday, April 27 at 7 p.m. in Room 310 Whitmore.

Sponsored by Iota Sigma Pi, honorary women's chemists organization, the lecture is open to the public.

Dr. Rona has in recent research been doing radiological studies on samples of earth obtained by drilling into the ocean floor.

Music workshop

Two music education workshops will be conducted tomorrow (Saturday) by Gladys Tipton, editor and clinician, at 10 a.m. and at 1:30 p.m. Those interested in music in the elementary classroom are invited to attend.

Dr. Tipton is professor of music education at Columbia Teachers College.

Further information may be obtained from Louise H. Dye, 865-7800.

Huxley lecture

Sir Julian Huxley, scientist, biologist, and author, will speak on the University Lecture Series Friday, April 24, at 8:30 p.m. in Schwab Auditorium.

Tickets for the lecture will be on sale to the public starting Wednesday, April 22, at 9 a.m. at the HUB.

Barnard brochure

A 40-page booklet with many illustrations concerning the life and work of sculptor George Grey Barnard was published last week by the University Library and the Pennsylvania Historical Commission.

Copies, priced at 50 cents, may be obtained at the office of the University Librarian, 101 Pattee, or at the State Museum in Harrisburg. Only a limited number of copies is available.

Titled "George Grey Barnard—1863—Centenary Exhibition—1963," the brochure is a record of an exhibition of photographs, documents and small studio plaster which was on display in Pattee Library last spring and summer in honor of the 100th anniversary of the birth of Barnard in Bellefonte on May 24, 1863.

Dr. Harold E. Dickson, professor of the history of art and architecture, arranged the exhibit and has contributed a review of Barnard's life and works to the brochure. Wendell MacRae, assistant to the curator of the Library, designed the brochure. There are 65 photographic illustrations that explain the rise of Pennsylvania's most famous sculptor to a high place in the art world.

Penn State recently acquired a bronze casting of one of Barnard's Lincoln statues.

Gordon Hall

In addition to his public lecture Sunday at 7:30 p.m. in Schwab Auditorium, Gordon Hall, researcher and lecturer on extremist groups, will speak at the weekly Faculty Luncheon Club Monday at 12:30 p.m. in HUB dining room "A," take part in a forum on the John Birch Society Monday at 4 p.m. in the HUB Auditorium, and speak at residence halls at 6 and 8 p.m.

A veteran of 31 months in the Pacific Theatre and Aleutian Islands, Hall since 1946 has engaged in writing, research, and lecturing on the dangers of organized extremist groups which carry on programs of racial and religious hatred.

Also participating in the Monday forum program are Dr. Robert K. Murray, head of the history department, and Dr. Neal Riemer, professor of political science.

SENATE MINUTES



MEETING OF APRIL 7, 1964

The University Senate met at 3:55 p.m. on Tuesday, April 7, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the March 3, 1964 meeting were approved as printed in the Faculty Bulletins for March 13 and 20, 1964. One hundred seventy-seven senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (A. W. Knott), Ben Euwema (H. J. O'Brien), A. J. Hirsch (O. R. Keister), E. L. Keller (F. B. Fischer), Lucille Magnusson (Phyllis Dorman), D. R. McClay (N. K. Hoover), R. E. McCord (V. E. Neilly), D. H. McKinley (W. M. Hench), C. I. Noll (R. D. Schein), W. H. Powers (J. S. Cook), H. A. Weeden (T. D. Larson), E. R. Weidhaas (J. M. Koon), and W. P. Winter (J. W. Siphron). Letters were also received from R. E. Larson stating that R. E. Swope would substitute for R. D. Dickerson during April and May, and from Ossian MacKenzie stating that J. J. Cramer would attend the April meeting in place of R. M. Colwell, deceased.

New Senators

A letter was read from Grace M. Henderson, Dean of the College of Home Economics, that Mary Dodds would continue to serve for Ruth Gates for the Spring Term, 1964.

A letter was read from J. D. Ridge, Chairman of the Senate Committee on Committees, that H. J. Golatz would replace R. C. Maloney on the Senate Committee on Student Affairs while he is on leave, and that W. O. Williamson would replace P. F. Lewis on the Senate Committee on Faculty Affairs while he is on leave. These two appointments had the approval of President Walker.

The following communication from B. F. Howell, Jr., concerning "Making Room for More Students at Penn State" was read by the secretary and referred by the President to the Senate Committee on Admissions:

The number of undergraduate students who can attend Penn State is at present limited in considerable part by the capacity of the University in its busiest term, the fall term. I recommend that University Senate consider the following plan as a means of accepting more new freshmen in the fall term.

Any student who would be a third, fourth, fifth, sixth, seventh, or eighth term student in the fall term and who was on probation for low scholarship during the preceding winter and spring terms shall not be allowed to register in the fall term. This rule shall not apply to ninth, tenth, eleventh, and twelfth term students because of the necessity of taking courses required for graduation which are offered only in the fall term. Students who register in the summer

term as full time students and do such good work that they are removed from academic probation, may at discretion of the Registrar, be permitted to register in the following fall term.

I believe that such a rule will be an incentive to scholarship to the students who at present are at the bottom of the class, and will permit a substantial increase in the number of freshmen allowed to register each fall.

The President expressed his concern over the readmission of students who have been on probation in preference to new students.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He asked that a correction be made to Item 1 B 1 by changing No. 219 to No. 220 (Engl 499). He moved adoption of the report as corrected. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report "REGARDING THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES AT THE PENNSYLVANIA STATE UNIVERSITY" which had been distributed with the agenda as Appendix "B." He commented on the report and stated that it had been studied by the Senate Committee on Courses of Study, by the Senate Committee on Educational Policy, and by the combined committees and that it had been approved by the three groups. He asked that the senators study the report and send their comments and views to the Committee on Educational Policy as soon as possible, in writing. He moved that the Senate receive this report at this time. The motion was seconded and passed. The report is as follows:

Report of the Senate Committee on Educational Policy

Regarding the Bachelor of Arts and Bachelor of Science Degrees at The Pennsylvania State University

The Senate Committee on Educational Policy was charged by the Senate to consider the problem of a College offering programs leading to a degree in a subject matter area when that subject-matter department is located in a different College. Since this circumstance prevails most frequently when both a B.A. and B.S. degree in a given field are offered, a definition of these two degrees was included in the matters considered by the Committee.

To accomplish its task the Committee has considered: 1) criteria to be used for differentiating substantively between programs leading to the bachelor of arts degree and those leading to the bachelor of science degree; and 2) whether or not the University should establish and maintain degree programs under circumstances in which that subject-matter department is located in a College other than the one sponsoring the degree program. Furthermore, the Committee has requested and has received the en-

dorsement of the Senate Committee on Courses of Study on the following recommendations:

I. Criteria for and Distinctions between the Bachelor of Arts and Bachelor of Science degrees

1) *The basic distinction between the two degrees lies, in the case of the B.A. degree, in the intent of a department to make its special program a part of the framework of a liberal education and, in the case of the B.S. degree, in the intent of a department to make its special program a part of a particular framework determined by professional needs and supported by general education.*

2) *The criterion for the establishment of a bachelor of arts degree in a given field will be that the program leading to the degree satisfy:*

a. The educational requirements established by the sponsoring department and approved by its College, and

b. A set of general requirements established by the Senate upon the recommendation of the core colleges.

3) *The criterion for the establishment of a bachelor of science degree will be that the program satisfy the educational requirements established by the sponsoring department and approved by its College.*

II. Other Recommendations

1) *A bachelor of arts or a bachelor of science degree will be offered only by the College in which the department representing the major field is located.*

2) *The general requirements for the bachelor of arts degree, referred to in 1-2 above, will be proposed by an ad hoc committee composed of representatives from the College of Arts and Architecture, Liberal Arts, and Science.*

3) *Any department wishing to establish both the B.A. and B.S. programs in a given field will be required to clearly establish an imperative need for the dual offering.*

III. Other Comments

1) *The criteria and recommendations in Section I and II of this report should not be construed as superseding the present all-University general education requirements for the Bachelor's degree.*

Unfinished Business

J. D. Ridge, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the recommendation to amend Article II, Section 4, of the Senate By-Laws which had laid on the table since last month. He moved adoption of the amendment. The motion was seconded and passed. Article II, Section 4 now reads:

A member may not serve as a chairman of a standing committee for more than four consecutive years. A member may not serve as a member of a standing committee for more than six consecutive years, except that a chairman of the committee who has served in that capacity for less than four years may continue on the committee for as long as he is chairman. The Chairman of the Sen-

Faculty survey proposed

The recent receipt by many faculty members of six month's worth of back salary increase in the form of a lump sum payment provides an excellent opportunity to add to our knowledge of consumer behavior.

The idea that consumers tend to save a fixed portion of their income is one of the cornerstones of both current economic theory and fiscal policy, but this proposition is still open to question and the present circumstances offer a unique opportunity for empirical investigation.

The faculty can help provide some insight into this important question by taking the trouble to fill out the anonymous, confidential questionnaire which will be distributed via campus mail within the next two weeks. This study is for scholarly purposes only, is sponsored by members of the Economics faculty but has no connection with the University Administration.

Film festival

The third and fourth films in the current Film Festival sponsored by the University Christian Association will be shown today (Friday) and next Tuesday at the HUB assembly room at 7 and 9 p.m.

This evening's film is "All the King's Men," the Robert Penn Warren story on political corruption and the discussion to follow in Room 218 HUB will be led by Paul M. Harrison, associate professor of religious studies.

Tuesday's film will be "La Strada," produced by Federico Fellini. The Rev. Samuel Gibson will lead the discussion.

Tickets may be obtained at the HUB desk or from member organizations of the U.S.A. Price is 35 cents.

American issues

"The American Community: Ideals and Realities," will be discussed Wednesday, April 22, at 8 p.m. in Room 101 Chambers by a panel consisting of Gregory Ain, head of the department of architecture; Dr. Roy C. Buck, associate director of C.C.L.E.; Arnold Noach, visiting professor of art history from the University of Leeds; and Winston R. Weisman, head of the department of art.

Moderator for the panel will be Richard E. Wentz, director of faculty program, U.C.A., which is sponsor of the series with the Program in American Studies.

Concert

The combined concert of the Men's Glee Club and the Women's Chorus will be given Sunday, April 26 at 3 p.m. in Schwab Auditorium.

Frank Gullo and Dr. W. Paul Campbell will direct as 200 men and women students will sing a varied program.

Priestley lecture

Dr. Arthur Kornberg, who shared the 1959 Nobel prize in medicine with Dr. Severo Ochoa of New York University, will deliver the 38th annual Priestley Lecture Series April 20-23, concerned with the biosynthesis of DNA.

He is currently professor and head of the department of biochemistry at Stanford University College of Medicine. Among his other honors was the Paul-Lewis Laboratories Award in Enzyme Chemistry from the American Chemical Society in 1951.

The lectures, which are sponsored by the local chapter of Phi Lambda Upsilon, honorary society in chemistry, will be given in Room 119, Osmond. Those on Monday, Tuesday, and Wednesday will be given at 8 p.m.; the Thursday lecture will be given at 4 p.m.

Faculty exercise

Sherman P. Fogg, associate professor of physical education who regularly conducts the exercise and activities program for the faculty, has arranged to provide both tennis and golf instruction to take the place of the activities lost because of construction work in Recreation Building.

Tennis group instruction will be offered Tuesday afternoons at the courts near the parking lot south of Recreation Building. The program will begin April 21 and equipment will be furnished. For those who wish it, tennis play will be available in place of instruction.

Golf instruction will be offered at the Ice Rink Pavilion where nets have been erected. Again, equipment will be furnished; instruction will begin Thursday, April 23.

Those interested may call Fogg at 865-7202.

THE ARTS



pavilion theatre



Kesdekian

Mesrop Kesdekian, former theatre arts student and instructor, will be guest director for the University Theatre's production of Jean Anouilh's "Thieves' Carnival," to run at Pavilion Theatre April 28 to May 2 and May 8 and 9.

Kesdekian has served for the past 12 years as producer-director of the Green Hills Theatre in Reading. A recent assignment was direction of the Theatre Guild's production of "The Skin of Our Teeth," starring Helen Hayes, June Havoc, and Leif Erickson. The production toured Europe under State Department Sponsorship. He has also directed for the Equity Library Theatre in New York, the Arena stage in Washington, D. C., the Bucks County Playhouse, and the Gate and Studio Theatres in Dublin, Ireland.

While at Penn State, Kesdekian directed "Arsenic and Old Lace," served as technical director and designer for several productions, and acted in "You Can't Take It With You" and "The Time of Your Life."

welded sculpture

Michael Robb, bibliographical assistant in Pattee Library, will have an exhibit of welded sculpture in the gallery at Room 105, Temporary, for the next two weeks (April 17-May 4). A public reception will be held today (Friday) at 7 p.m. in the gallery to mark the opening of the exhibit. An exhibit of Robb's jewelry was held at Western New Mexico University last year.

artists series

Joseph Fuchs, violinist, and his sister, Lillian, violist, will present a program in the Artists Series at 8:30 p.m. today (Friday) in Schwab Auditorium.

blue band

The Penn State Concert Blue Band, directed by James W. Dunlop, will present its spring concert Sunday at 3 p.m. in Schwab Auditorium. Christine Burkholder, cornetist, will be featured soloist.

SENATE MINUTES



MEETING OF APRIL 7, 1964

The University Senate met at 3:55 p.m. on Tuesday, April 7, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the March 3, 1964 meeting were approved as printed in the Faculty Bulletins for March 13 and 20, 1964. One hundred seventy-seven senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. H. Albright (A. W. Knott), Ben Euwema (H. J. O'Brien), A. J. Hirsch (O. R. Keister), E. L. Keller (E. B. Fischer), Lucille Magnusson (Phyllis Dorman), D. R. McClay (N. K. Hoover), R. E. McCord (V. E. Neilly), D. H. McKinley (W. M. Hench), C. I. Noll (R. D. Schein), W. H. Powers (J. S. Cook), H. A. Weeden (T. D. Larson), E. R. Weidhaas (J. M. Koon), and W. P. Winter (J. W. Siphon). Letters were also received from R. E. Larson stating that R. E. Swope would substitute for R. D. Dickerson during April and May, and from Ossian MacKenzie stating that J. J. Cramer would attend the April meeting in place of R. M. Colwell, deceased.

New Senators

A letter was read from Grace M. Henderson, Dean of the College of Home Economics, that Mary Dodds would continue to serve for Ruth Gates for the Spring Term, 1964.

A letter was read from J. D. Ridge, Chairman of the Senate Committee on Committees, that H. J. Golatz would replace R. C. Maloney on the Senate Committee on Student Affairs while he is on leave, and that W. O. Williamson would replace P. F. Lewis on the Senate Committee on Faculty Affairs while he is on leave. These two appointments had the approval of President Walker.

The following communication from B. F. Howell, Jr., concerning "Making Room for More Students at Penn State" was read by the secretary and referred by the President to the Senate Committee on Admissions:

The number of undergraduate students who can attend Penn State is at present limited in considerable part by the capacity of the University in its busiest term, the fall term. I recommend that University Senate consider the following plan as a means of accepting more new freshmen in the fall term.

Any student who would be a third, fourth, fifth, sixth, seventh, or eighth term student in the fall term and who was on probation for low scholarship during the preceding winter and spring terms shall not be allowed to register in the fall term. This rule shall not apply to ninth, tenth, eleventh, and twelfth term students because of the necessity of taking courses required for graduation which are offered only in the fall term. Students who register in the summer

term as full time students and do such good work that they are removed from academic probation, may at discretion of the Registrar, be permitted to register in the following fall term.

I believe that such a rule will be an incentive to scholarship to the students who at present are at the bottom of the class, and will permit a substantial increase in the number of freshmen allowed to register each fall.

The President expressed his concern over the readmission of students who have been on probation in preference to new students.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He asked that a correction be made to Item 1 B 1 by changing No. 219 to No. 220 (Engl 499). He moved adoption of the report as corrected. The motion was seconded and passed. The complete report is on file in the office of the secretary.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report "REGARDING THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES AT THE PENNSYLVANIA STATE UNIVERSITY" which had been distributed with the agenda as Appendix "B." He commented on the report and stated that it had been studied by the Senate Committee on Courses of Study, by the Senate Committee on Educational Policy, and by the combined committees and that it had been approved by the three groups. He asked that the senators study the report and send their comments and views to the Committee on Educational Policy as soon as possible, in writing. He moved that the Senate receive this report at this time. The motion was seconded and passed. The report is as follows:

Report of the Senate Committee on Educational Policy

Regarding the Bachelor of Arts and Bachelor of Science Degrees at The Pennsylvania State University

The Senate Committee on Educational Policy was charged by the Senate to consider the problem of a College offering programs leading to a degree in a subject matter area when that subject-matter department is located in a different College. Since this circumstance prevails most frequently when both a B.A. and B.S. degree in a given field are offered, a definition of these two degrees was included in the matters considered by the Committee.

To accomplish its task the Committee has considered: 1) criteria to be used for differentiating substantively between programs leading to the bachelor of arts degree and those leading to the bachelor of science degree; and 2) whether or not the University should establish and maintain degree programs under circumstances in which that subject-matter department is located in a College other than the one sponsoring the degree program. Furthermore, the Committee has requested and has received the en-

dorsement of the Senate Committee on Courses of Study on the following recommendations:

I. Criteria for and Distinctions between the Bachelor of Arts and Bachelor of Science degrees

- 1) *The basic distinction between the two degrees lies, in the case of the B.A. degree, in the intent of a department to make its special program a part of the framework of a liberal education and, in the case of the B.S. degree, in the intent of a department to make its special program a part of a particular framework determined by professional needs and supported by general education.*
- 2) *The criterion for the establishment of a bachelor of arts degree in a given field will be that the program leading to the degree satisfy:*
 - a. *The educational requirements established by the sponsoring department and approved by its College, and*
 - b. *A set of general requirements established by the Senate upon the recommendation of the core colleges.*
- 3) *The criterion for the establishment of a bachelor of science degree will be that the program satisfy the educational requirements established by the sponsoring department and approved by its College.*

II. Other Recommendations

- 1) *A bachelor of arts or a bachelor of science degree will be offered only by the College in which the department representing the major field is located.*
- 2) *The general requirements for the bachelor of arts degree, referred to in 1-2 above, will be proposed by an ad hoc committee composed of representatives from the College of Arts and Architecture, Liberal Arts, and Science.*
- 3) *Any department wishing to establish both the B.A. and B.S. programs in a given field will be required to clearly establish an imperative need for the dual offering.*

III. Other Comments

- 1) *The criteria and recommendations in Section I and II of this report should not be construed as superseding the present all-University general education requirements for the Bachelor's degree.*

Unfinished Business

J. D. Ridge, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the recommendation to amend Article II, Section 4, of the Senate By-Laws which had laid on the table since last month. He moved adoption of the amendment. The motion was seconded and passed. Article II, Section 4 now reads:

A member may not serve as a chairman of a standing committee for more than four consecutive years. A member may not serve as a member of a standing committee for more than six consecutive years, except that a chairman of the committee who has served in that capacity for less than four years may continue on the committee for as long as he is chairman. The Chairman of the Sen-

ate Committee on Athletics is exempted from the above requirements to the extent that he may serve as Chairman of that Committee for a maximum of twelve years and that he may be re-appointed annually within this twelve year limit even though he does not continue as a member of the Senate. He must, however, be a member of the Senate at the time of his initial appointment.

Comments and Recommendations for the Good of the University

President Walker referred to his comments of the March meeting of the Senate regarding the re-organization of the Senate. He stated that reorganization could not be considered separately from other problems of the University and cited some of the problems. Mr. Walker stated that over the last twenty years responsibility and authority has shifted from the deans of the Colleges to the administration in Old Main but that he felt the time has come when decentralization should take place. He, therefore, was planning to give the deans more responsibility and authority regarding budget, salaries, etc., and that they must fit the long range plans of the College together. It will be his responsibility to fit the Colleges together within the University.

Mr. Walker quoted Article II of the Constitution and stated that he did not understand it. He thought that the Senate needed to be re-organized and that the Constitution and By-Laws needed to be rewritten. He asked the Senate Committee on Educational Policy to make a full study of the Constitution and By-Laws and to keep in mind that it will take a two-thirds vote of the Senate to pass any changes. Mr. Walker also appointed an *ad hoc* committee to study the membership of the Senate and asked the two committees to work closely together. The membership of the *ad hoc* committee is as follows: F. W. Kniffin, Chairman, N. C. Deno, W. W. Hassler, Jr., K. L. Holderman, R. H. Jahns, Ruth L. Pike, H. M. Southworth, and D. G. Thevaas.

The Colleges are reminded that the names of the elected senators are to be submitted IN WRITING to the secretary before the May 5 meeting. The secretary will read the names at the May 5 meeting.

The next regular meeting of the Senate will be on May 5; the agenda will be distributed on April 21, 1964.

The meeting adjourned at 4:40 p.m.

Robert G. Bernreuter
Secretary

Plans approved

The Board of Trustees, at its meeting April 4, approved sketch plans for the two-story addition to the Research Reactor. It will be built to the east of the existing building and will permit research in which the source of gamma rays will be Cobalt-60.

The National Science Foundation has given a grant of \$91,000 to apply toward the cost of the new facility, which is estimated to cost \$190,000.

ROTC PRACTICE

Army R.O.T.C. students this week practiced with blank ammunition and hand grenades in training exercises held in the parking area east of University Drive and south of Park Rd. The same exercises will be held during the week of April 27.

COLOR SLIDE CLUB

The State College Color Slide Club will hold its next to last meeting of the current year Monday, April 20 at 7:30 p.m. in Room 101 Chambers. Motion pictures of the World Canoe Slalom Championships, with canoeists David Kurtz and Henry Yeagley, III, present and commenting will be shown. John W. Cataldo, of the art education faculty, will judge the monthly competition.

CHEMICAL ENGINEERS

Penn State ranks second to Purdue University in numbers of chemical engineers graduated last year, according to American Chemical Society compilations. The program began in 1906 in what was called industrial chemistry.

CONTRIBUTIONS

Contributions to the Penn State Alumni Fund at the close of receipts April 13 totalled \$220,556.54, received from 7,631 contributors.

DuBOIS

The new half-million dollar laboratory building soon to be completed at the DuBois Camps will be named the Patrick Joseph Swift Memorial Building. Mr. Swift was an extremely active member of the DuBois community and helped to found and incorporate and served as first president of the DuBois Education Foundation. He continued in office from 1945 until his death in 1957.

AIRPORT

The telephone number of the University Park Airport has been changed to 355-5511. The change was made necessary in connection with increasing telephone communication to and from the Airport.

TECHNOLOGY

A program to train engineering technology instructors will be offered this fall to a group of 30 highly qualified personnel who have degrees in engineering related fields. Dr. O. E. Lancaster, George Westinghouse professor of engineering education, will direct the program, which will be supported by an N.S.F. grant of \$235,340.

CELEBRATION

The Mu Chapter of Phi Lambda Upsilon, honorary chemical society, will celebrate its 50th anniversary May 21. The chapter started in 1914 with 22 junior and senior chemistry students as an outgrowth of the Penn State Chemists Club.

OUTSTANDING

The student branch of the Society of Automotive Engineers has been selected as the outstanding student branch in the entire country by the Bendix Corporation, which presented a plaque and a check of \$100 to the group April 13.

Home Ec program

A panel discussion on the problems and satisfactions with some of the newer fibers, finishes, and processes in the manufacture of clothing will be held as part of the Home Economics Spring Weekend Friday, April 24, at 11:10 a.m. in Room 108-109 Home Economics South.

Panelists will include Dr. A. Frank Tesi, Barbara Densmore, Aurelia K. Adams, and two graduate assistants, Gesa H. Adam and Claudia A. Brush.

Another highlight of the program will be a talk by Dr. William M. Smith, Jr., assistant director of agricultural extension for family, youth, and community development. He will speak on the subject, "Does Youth Have a Place in Megalopolis," at 2:20 p.m. in the Home Economics Auditorium.

Mrs. Esther Peterson, special assistant to the President for Consumer Affairs and Assistant Secretary of Labor for Labor Standards, will be the featured speaker of the day-long program. She will talk on "Young People as Consumers," in Schwab Auditorium at 3:55 p.m.

Tours, exhibits, and class demonstrations will also be featured in the program and there will be other lectures on the theme, "Young People and the Future."

Kozak lecturer

Dr. Andrew V. Kozak, associate professor of mathematics education, is visiting lecturer in the Clearfield County schools for the second year.

The program of visiting lecturers is supported by a grant of the National Science Foundation. The Mathematical Association of America designated Dr. Kozak for the position. He will visit each of two area high schools and lecture on mathematical topics to groups of selected students. He will also discuss curriculum improvements in mathematics with administrators, supervisors, and the mathematics staffs of the schools.

Internship

The School of Journalism has entered into an agreement with four daily newspapers, an advertising agency, and two television stations to provide an internship program of 10-13 weeks involving closely supervised work not only in specific jobs but in exposure to other aspects of the operation in which the internship program is a part.

PERSONNEL MATTERS



Appointments

Dr. William Rabinowitz, who has served with the division of teacher education in New York since 1955, has been named professor and head of the department of educational psychology. A graduate of The City University of New York, he obtained his master of arts and doctor of philosophy degrees from Columbia University Teachers College. He was a Fulbright Research Scholar with the Institute for Educational Research, University of Oslo, Norway, in 1962-63, and he has served as lecturer in psychology at Hunter College, as research associate at Bank Street College of Education in New York, and as an assistant of psychological foundations and educational research, Teachers College, Columbia.

Dr. William R. Carriker, director of the research and demonstration branch of the Division of Handicapped Children and Youth for the U. S. Office of Education, has been appointed professor and head of the department of special education, effective June 1. He served previously as research coordinator for the Co-operative Research Program of the U. S. Office of Education and was a lecturer at American University and during the summer associate professor at the University of Maryland.

Dr. Ernst Bleuler, a member of the Purdue University faculty since 1947, has been appointed professor of physics. His research at Purdue was related to the cyclotron and the nuclear radiation laboratory. He received his doctorate at the Federal Institute of Technology in Zurich, Switzerland, where he also served on the faculty for several years.

Dr. Bruce R. F. Kendall, senior research scientist and director of the special products department for Nulclide Corporation, has been named associate professor of physics. A native of Australia, he obtained both undergraduate and graduate degrees in physics from the University of Western Australia. He was a postdoctoral fellow and assistant research officer for the National Research Council of Canada from 1959 to 1961. His research has been in the areas of isotopic analysis of solids, gas analysis at very low pressures, and development of new instruments and devices for use in ultra-high vacuum research.

Paul R. Pratt, a recent graduate of the University in dairy science, has been appointed assistant Bucks County agent.

Muriel W. Brown, consultant in family life education, writer, and educator, has been named visiting professor of home-community relationships in the College of Home Economics and will teach a short course on "Communities and Families" from June 29 to July 17. She was associated with the U. S. Department of Health, Education, and Welfare for more than 20 years and special assignments as consultant have taken her to England, Pakistan, Egypt, Hawaii, and Germany.

David A. Long, sanitary engineer for Baster and Woodman, Crystal Lake, Ill., has been appointed instructor in sanitary engineering. He has received both bachelor's and master's degrees from the State University of Iowa.

Retirement

Ralph D. Widdowson, associate professor of industrial education, retired April 9 and has been appointed director of the Spring Garden Institute Technical Mission to Turkey, which is supported by the U. S. Administration for International Development. He will help the Turkish government to set up and develop programs and curriculums for technical institutes and for the training of teachers for such institutes. He will be overseas for the next 18 months. A member of the faculty since 1950, he had a previous overseas assignment; from 1955 to 1957 he was teacher-trainer and chief of the Penn State contract team in Formosa.

Merwin W. Humphrey, professor of forestry, will retire May 1 after serving on the faculty since 1937. A native of Albion, N. Y., he was graduated in economics and history from Cornell University and received the master of forestry degree from Yale University in 1931. From 1931 to 1937 he was a forest investigator for the New York State Conservation Department. While on leave during 1943-45 he was associate forester for the U. S. Forest Service Timber Production War Project, and served in pulpwood procurement work for the Armstrong Forest Co.

Leaves

Dr. Donald G. McGarey, professor of education, has been granted a leave from January, 1965, to June to work on a book concerning curriculum construction while in residence at the University of Miami. He will make

an appraisal of new trends in education, and will also be at George Peabody College for part of his leave.

Dr. Joseph H. Dahmus, professor of medieval history, has been granted a leave from July 1 to Dec. 31 to conduct research on documents in libraries in Washington, D. C., and New York City for a series of short biographies of medieval monarchs, in preparation for a book, "Seven Medieval Kings."

Dr. Kinsley R. Smith, professor of psychology, will be on leave for the Spring Term, 1965, to visit industrial plants throughout the east, studying personnel practices and manufacturing procedures.

Dr. Stuart Patton, professor of dairy science, will be on leave for six months, beginning Sept. 1.

Christopher B. A. Peck, research assistant at the Ordnance Research Laboratory, is on leave until June 30 to work for his master's degree at Penn State in the department of mathematics.

Kniffin named



Kniffin

Dr. Fred W. Kniffin, professor of marketing, was appointed by President Walker to be chairman of an *ad hoc* committee of the University Senate to study the membership of the Senate.

Other members of the Committee are Dr. Norman C. Deno, professor of chemistry; Dr. Warren W. Hassler, Jr., associate professor of American history; Kenneth L. Holderman, Coordinator of Commonwealth Campuses; Dr. Richard H. Jahns, dean of the College of Mineral Industries; Dr. Ruth L. Pike, professor of foods and nutrition; Herman M. Southworth, professor of agricultural economics; and Dr. Deno G. Thevaas, associate professor of psychology.

President Walker also asked the Senate Committee on Educational Policy to make a full study of the Constitution and By-Laws of the Senate with a view to making suggestions or recommendations for changes or rewriting. Dr. J. J. Schanz, professor of mineral economics, is chairman of this committee.

The two Committees are expected to work together in some of their deliberations.

CALENDAR



Friday, April 17

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Artists Series program by Joseph and Lillian Fuchs, violinist and violist, 8:30 p.m., Schwab Auditorium.

Fluid Mechanics Seminar, 4 p.m., Room 232 Hammond. Dr. Yen-Mow Lynn, associate research scientist, Magneto-Fluid Dynamics Division, Courant Institute of Mathematical Sciences, New York University, on "Nonlinear Wave Motion in Steady Magnetohydrodynamic Flow."

U.C.A. Film Festival, 7 and 9 p.m., HUB assembly room. "All the King's Men," discussion to follow at Room 218 HUB led by Paul M. Harrison, associate professor of religious studies.

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. J. J. Wolken, professor of biophysics, Eye and Ear Hospital, University of Pittsburgh Medical Center, on "Studies of the Visual Systems of Invertebrates: Structure, Optics, and Biochemistry."

Saturday, April 18

Lecture by Dr. Huston Smith, professor of philosophy at M.I.T., on "New Accents in the Dialogue of World Cultures and Religion," 8 p.m., Room 101 Chambers, sponsored by the Faculty Committee, U.C.A.

Varsity athletics, golf, vs. Maryland, 1 p.m.; tennis, vs. Army, 2 p.m.

Sunday, April 19

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Huston Smith, M.I.T., on "Condemned to Meaning."

Lecture by Gordon Hall, researcher on extremist groups, 7:30 p.m., Schwab Auditorium, on "The Threat from Hate Groups in America."

Monday, April 20

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Gordon Hall, researcher on extremist groups.

Priestley Lecture by Dr. Arthur Kornberg, 8 p.m., Room 119 Osmond, on biosynthesis of DNA.

State College Color Slide Club meeting, 7:30 p.m., Room 101 Chambers.

Tuesday, April 21

Economics Seminar, 12:15 p.m., HUB dining room "A." Dr. Lawrence Fouraker, Harvard Business School, on "Some Aspects of Aspiring Behavior."

U.C.A. Festival showing of "La Strada," 7 and 9 p.m., HUB assembly room. Rev. Sam Gibson, discussant.

Wednesday, April 22

Gamma Sigma Delta meeting, 6:30 p.m., HUB dining room "A." D. H. McKinley, on "Some Economic Crossroads."

American Issues series of symposia, 8 p.m., Room 101 Chambers. Panel discussion on "The American Community: Ideals and Realities," with Gregory Ain, Roy C. Buck, Arnold Noach, Winston R. Weisman, with Richard E. Wentz as moderator.

Thursday, April 23

Intercollegiate Reading Festival, HUB Assembly room, 2 p.m., prose; 8 p.m. multi-form reading. Continues Friday.

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. F. Marshall Beringer, Brooklyn Polytechnic Institute, on "New Chemistry of Iodonium Salts."

Concluding session of Priestley lectures by Dr. Arthur Kornberg, 4 p.m., Room 119 Osmond.

W.R.A. "Aquacade," White Hall pool, 8 p.m.

Friday, April 24

University Lecture Series, 8:30 p.m., Schwab Auditorium. Sir Julian Huxley, scientist and author.

WRA "Aquacade," White Hall pool, 8 p.m.

Interlandia Folk Dance, 7:30 p.m., Conference Center.

Home Economics Spring Weekend program. Featured speaker, Mrs. Esther Peterson, assistant secretary of labor for labor standards, 3:55 p.m., Schwab Auditorium, on "Young People as Consumers."

GRANTS



R. H. Essenhigh, fuel technology, \$33,500 Penna. Dept. of Mines and Mineral Industries, for study of high moisture pulverized coal flames with supplementary study of time-to-ignition temperature of coal dusts and their dependence on moisture content.

R. W. Lindsay, metallurgy, \$800, E. I. du Pont de Nemours and Co., for cooperative program in metallurgy.

C. D. Stahl, petroleum and natural gas, \$3,000, Continental Oil Co., for fellowship in petroleum engineering.

W. R. Buessem, Materials Research Laboratory, \$15,000, Stackpole Carbon Co., to support research in ferrites.

Cortland Eyer, French, \$63,396, U. S. Office of Education, for Summer Institute for 42 elementary school teachers of French.

O. E. Lancaster, engineering education, \$235,340, National Science Foundation, for Academic Year Institute for training teachers to instruct engineering technicians.

C. D. Stahl, petroleum and natural gas, \$4,025, Gulf Research and Development Co. for Academic Year Fellowship in Petroleum Engineering.

P. J. Glantz, veterinary science, \$13,440 U. S. Public Health Service, for study of E. coli serotypes in diseases of animals.

Dean Asquith, Arendtsville, \$500, Hercules Powder Co., for research on mite and insect investigations.

F. R. Axelson, engineering experiment \$3,000, Penna. Dept. of Public Instruction for study of the feasibility of electric heat at California State College.

P. H. Given, fuel technology, \$6,550, National Science Foundation, for a conference on coal science.

F. A. Hummel, ceramic technology, \$5,000 Bethlehem Steel Co., for research in ceramic technology of direct interest to steel industry

faculty BULLETIN

Vol. 51, No. 39 April 17, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

**LOUISE K. KELLY
401 PATTEE LIBRARY**

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

JGE issue

The April issue of the Journal of General Education (JGE), of which Dean Ben Euwema is editor and Carol Sams assistant editor, is a special issue on Shakespeare in commemoration of the 400th anniversary of his birth.

The special student-faculty one-year subscription rate for the Journal is \$2.50 and the three-year rate is \$6. These rates are still in effect.

In the April issue are included Dean Euwema's editorial comment on "The Universal in Hamlet"; an article by Paul West, associate professor of English, on "Respecting the Daedal Anonym"; a study of the character, Richard II, by Robert R. Reed, Jr., also of the English department, in the article titled "Portrait of a Psychotic."

Thomas D. Bowman, professor of English emeritus, is author of "Two Addenda to Hotspur's Tragic Behavior"; Gordon Ross Smith contributes a review of Geoffrey Bullough's "Narrative and Dramatic Sources of Shakespeare"; and Smith's book, "A Classified Shakespeare Bibliography 1936-58" is reviewed by Dr. Herbert Howarth, University of Pennsylvania.

Other articles, by authors from other universities, include Herbert Weisinger's "Myth, Method, and Shakespeare"; a description of "The Oregon Shakesperian Festival," by Arthur Kreisman; and Sheldon P. Zitner's "Macbeth and the Moral Scale of Tragedy."

Gilbreth speaks

The remarkable 86-year-old management consultant Dr. Lillian Gilbreth will be a distinguished visiting lecturer in industrial engineering April 28 and May 12.

She will speak on "Some Management Problems Today" and "Management and Education." Both sessions will begin at 4 p.m. in the Mineral Industries Auditorium.

Dr. Gilbreth was here as a speaker in January, 1959, addressing seniors in engineering and members of the Society for the Advancement of Management.

A pioneer with her husband in the field of scientific management, Dr. Gilbreth is known world-wide for her professional work and has only recently returned from a hectic tour which took her to Hawaii, Auckland, Australia, The Philippines, Hong Kong, India, and Greece. To many other people she is known as the mother of the "Cheaper by the Dozen" book, which refers to the twelve children she had.

Her talk here will be introduced by Dr. Harold B. Maynard, president of the Maynard Research Council, who was distinguished visiting professor of industrial engineering during the past fall term.

Johnstone named

Dr. Henry W. Johnstone, Jr., professor of philosophy, has been appointed Research Scholar of the College of the Liberal Arts for the Spring Term.

He will work on his latest publication, "Selfhood," a book which will develop the position he took in the final chapter of an earlier book, "Philosophy and Argument," published by the University Press in 1959.

Dr. Johnstone is the author of "Elementary Reductive Logic" and another book, "What Is Philosophy," will be published by Macmillan Co. in 1965. He is also co-author of "Natural Deduction: The Logic of Axiom Systems," and of many papers in philosophical journals.

Camera three

The Audio-Visual Aids Library has established channels for borrowing kinescopes of Camera Three television programs at no cost except for postage.

The privilege is limited to 12 months from the date of the broadcast, and requests should specify the title or subject of the program and the date of the broadcast if possible.

Requests may be made by phone, 5-6314, or sent to Room 3, Pattee Library.

Graduate lecture

Dr. Walter Orr Roberts, one of the nation's leading scientists in the field of atmospheric research, will be the next Graduate School Lecturer Wednesday, May 6, at 8:30 p.m. in Room 121 Sparks.

Currently a Phi Beta Kappa Visiting Scholar, Dr. Roberts will also visit with faculty members and students during his stay.

Dr. Roberts is a solar astronomer and is now director of the National Center for Atmospheric Research and professor of astrophysics at the University of Colorado. He was director of the High Altitude Observatory, affiliated with both Harvard University and Colorado from 1916 to 1951 and with Colorado from 1951 until the Observatory's merger with the National Center for Atmospheric Research in 1959. He has been a research associate at Harvard since 1948.

He was chairman of the Solar Technical Panel of the U. S. National Committee for the International Geophysical Year from 1957 to 1960. In 1963 he was appointed to the Board of Directors of the American Association for the Advancement of Science.

Dr. Roberts' research has been on the solar corona, solar prominences, the origin of geomagnetic disturbances and on influences of variable solar activity on the terrestrial atmosphere.

He will speak on the subject, "Can Man Control the Weather."

Simmons series

Haskell Block, professor of classics and comparative literature at Brooklyn College, City University of New York, will lecture Monday, April 27, at 4 p.m. in the HUB Assembly Room as the feature of the Simmons Series of lectures and recitals.

He will speak on "The Impact of French Symbolism on Modern American Poetry."

The series honors Lucretia Van Tuyl Simmons, who was head of the German department for 20 years and a member of the faculty for 36 years until her retirement in 1939.

Dr. Block has taught at Harvard University, Queens College, and the University of Wisconsin and was a Fulbright Research Scholar at the University of Cologne. He is the author of many essays on European dramatic naturalism, symbolist drama, and expressionism in the modern American theatre and of individual studies of Strindberg, Hofmannsthal, Yeats, and Camus. He also authored a recently published critical study, "Mallarmé and the Symbolist Drama."

PERSONNEL MATTERS



Dr. Richard D. Schein, associate professor of botany, has been appointed assistant to the dean of the College of Science and will divide his time between that office and teaching and research in botany. He will be concerned with resident education and with research administrative responsibilities in the new position. A member of the faculty since 1955, Dr. Schein is a graduate of DePauw University, and his doctor of philosophy degree, with a major in plant pathology, was conferred by the University of California.

Robert B. Hewes, professor of mineral industries continuing education, will be acting director of Mineral Industries Continuing Education until June 30, assuming the responsibilities held by Donald C. Jones before his retirement April 1. Hewes has been a member of the faculty since 1939.

Francis Costello, instructor in chemistry at the Schuylkill Campus, has been named to take part in the National Science Foundation's research program for college teachers. He will work in the field of organic chemistry on strained ring systems at the University of Buffalo.

Athleen J. Stere, research assistant at the Albert Einstein Medical Center since 1959, has been appointed research assistant in zoology. She was graduated from Bryn Mawr College and was granted the master of arts degree in biology from Radcliffe College. She has been research assistant at Boston University and teaching fellow at Harvard.

Leaves of absence for a six-months period beginning July 1 have been approved for Robert G. Wingard, chairman of forestry and wildlife management extension, and William M. Carrol, agricultural extension economist in public affairs. Both will be concerned with a study and evaluation of various planning procedures in rural and rural-urban areas of the northeastern U. S.

MacKenzie cited

Ossian R. MacKenzie, dean of the College of Business Administration, was cited as a Distinguished Montanan last Friday at the Montana Centennial Dinner in Washington, D. C. The affair honors Montanans who have distinguished themselves nationally.



In the audio-tutorial laboratory for Botany 27, Walter Westerfeld, left, assistant professor of botany, discusses with graduate student Charles Curry the progress of students in a recent experiment. The laboratory experience is quite different for students than it would have been under the traditional method of teaching lab.

Tape recorders aid

New Botany Laboratory

Techniques common today in language laboratories are being put to a unique use in Botany 27, a general course with laboratory work taken as a required science elective by students of many different major fields.

Walter F. Westerfeld, assistant professor of botany, teaches the course and has developed the use of tape recorders to give laboratory instructions and general information to 120 students this term, thereby helping to solve a space problem, improve instruction, and make the student's program more flexible.

The course has the traditional twice-a-week lecture plus a period for laboratory experience. The total class time allotted under the new method is no different from what it was under the old, except that students now schedule a specific laboratory within a broad schedule of 30 hours per week. Under usual procedures, the class would have been divided into three sections and the students assigned to a section meeting at a designated time.

When the student enters the laboratory, he goes to a "station" which is unoccupied and proceeds on his own to carry out the experiment for the week. He puts on headphones which are connected to his personal tape recorder and which has a tape of instructions for the experiment. His "station" also has a microscope or other equipment needed for the specific experiment and on the "peg-board" sides of the station may be attached certain types of instructions, drawings, or information. Botanical materials and chemicals he will need in the experiment are on a table nearby.

In the first laboratory period the student was given very explicit instructions on the operation of the tape recorder, including the controls which permit the student to start the tape at any point or rewind to repeat instructions he failed to understand. A counter on the tape recorder indicates how much of the tape has been run and instructions frequently refer to the counter number.

Westerfeld himself makes the tapes, including much of the same material which he customarily gave to laboratory sections in person, but adapting other parts to the new method. There are some other differences, occasioned by the fact that some of the approaches to the laboratory experience have been changed along with the methods. For example, students used to spend long, and undoubtedly tedious, hours making detailed drawings of cells or plant materials. Whatever the justification for such laboratory practice it is no longer done, and Westerfeld is able to give the class material not previously possible because there was not enough time.

THE ARTS



raver concert

Dr. Leonard Raver, Chapel organist, will play an all-Bach concert tomorrow (Saturday) at 8:30 p.m. in Schwab Auditorium, based on a program once played by Felix Mendelssohn in the Thomaskirche, in Leipzig, Germany.

The program will include a Prelude and Fugue, in E Flat; the Chorale prelude, "Deck Thyself, O Soul, with Gladness"; a Prelude and Fugue in A minor; the Passacaglia and Fugue in C Minor; the Pastorale in F Major; and Toccata in F Major."

The Mendelssohn program referred to was given in the summer of 1840 with the purpose of raising funds for a memorial to Bach.

combined concert

The Men's Glee Club and the Women's Chorus, directed respectively by Frank Gullo and Dr. W. Paul Campbell, will give a concert Sunday at 3 p.m. in Schwab Auditorium.

The combined choruses will number 200. The program will include a section of sacred music by the two groups, followed by the Glee Club's singing "Glorious Apollo," by Weble, and the Women's Chorus singing Copland's "Simple Gifts." The final section will include secular music by contemporary composers, including Bartok, Maurice Gardner, Huston Bright, and Gilbert and Sullivan.

pavilion theatre

Tickets for the University theatre production of Jean Anouilh's "Thieves' Carnival," which will be featured at Pavilion Theatre Tuesday through Saturday next week and also May 8 and 9, remain on sale at the Theatre Box Office. They may be reserved by calling 865-6300.

Mesrop Kesdekian is serving as guest director for the production. Curtain time is 8 p.m.

art exhibits

Currently on display on the University Park campus are these two art exhibits:

Student Art Exhibit, including an architectural display, until May 4, at HUB gallery.

Welded Sculpture by Mike Robb, bibliographer at Pattee Library, Room 105 Temporary Building gallery, until May 4.

Philosophy meeting

The Western Pennsylvania Philosophical Society will meet at Penn State May 9 in meetings which are open to the public. Dr. John M. Anderson, professor and head of the department of philosophy, is president of the Society this year.

Of especial interest are a lecture by Dr. John Smith, Yale University, on the subject "Intuitive and Discursive Elements in Self Knowledge" and a panel discussion on the subject, "Knowledge of the Self in Religion," with panelists representing Judaism, Catholicism, and Protestantism.

Saturday lecture

Dr. Kyle Haselden, managing editor of "The Christian Century" and editor of "The Pulpit," will present the Saturday Lecture in the current series of talks sponsored by the Faculty Committee of the U.C.A. tomorrow at 8 p.m. in Room 101 Chambers.

Dr. Haselden, who will speak on "Protestantism and Public Opinion," is the author of "The Racial Problem in Christian Perspective."

Construction

An addition to the Borland Laboratory will be constructed to provide more space for the research program of the department of dairy science. The addition, three floors with a total area of 3,200 square feet, will be built on the north side of the building. Programs in synthesis of milk constituents, flavor research, and the physiology of lactation will benefit from the added space.

Book cited

The American Library Association has cited "A Classified Shakespeare Bibliography, 1936-58," edited by Gordon R. Smith, associate professor of English and published by the University Press as one of the outstanding reference books of 1963.

During 1964 the book will be displayed at national and regional library meetings throughout the country.

Ocean studies

Radioactivity of the ocean will be discussed by Dr. Elizabeth Rona, radio-chemist with the Special Training Division at Oak Ridge Institute of Nuclear Studies Monday, April 27, at 7 p.m. in Room 310 Whitmore.

Dr. Rona's lecture is the annual Marie Curie lecture sponsored by Iota Sigma Pi.

Music series

The third publication of the Penn State Music Series of the University Press, a group of duets by Henry and William Lawes, will be published soon.

The Series is under the general editorship of Denis Stevens, professor of music, who made transcriptions of the music at the British Museum. From these, Joy Jesson, professor of music at the Royal Academy of Music, London, and harpsichordist for the Accademia Monteverdiana, made realizations of the music. The works of the composers gained popularity in the early years of the 17th century.

Copies of the music may be ordered directly by faculty members from the University Press and obtain a discount of 20 per cent.

Reading festival

The 16th annual Reading Festival which began yesterday will continue today (Friday) with presentations in poetry at 9:15 a.m. and drama at 1:15 p.m. in the HUB Assembly Hall.

Evaluator for the two-day program this year is Dr. Elbert R. Bowen, professor of speech and drama at Central Michigan University. Nineteen colleges and universities from four states are represented among the readers.

Honored

Joseph H. McMullen, assistant football coach and assistant professor of physical education, this week received an honorary Doctor of Humane Letters degree from Salem College, in West Virginia.

The degree was granted in recognition of McMullen's service to youth. During his coaching and teaching career, McMullen has been active in the YMCA, Boy Scouts, Rotary youth services, and Methodist Church youth organizations.

Sigma Xi

The annual Sigma Xi initiation banquet will be held Wednesday, April 29, at 6 p.m. in the Nittany Lion Inn. Dr. Marsh White, professor emeritus of physics, will speak on "Criterion for Membership in the Society of Sigma Xi."

Huxley lecture

Sir Julian Huxley, noted scientist and author, will lecture on "The Humanist Revolution" on the University Lecture Series today (Friday) at 8:30 p.m. in Schwab Auditorium.

PERSONNEL MATTERS



Dr. Richard D. Schein, associate professor of botany, has been appointed assistant to the dean of the College of Science and will divide his time between that office and teaching and research in botany. He will be concerned with resident education and with research administrative responsibilities in the new position. A member of the faculty since 1955, Dr. Schein is a graduate of DePauw University, and his doctor of philosophy degree, with a major in plant pathology, was conferred by the University of California.

Robert B. Hewes, professor of mineral industries continuing education, will be acting director of Mineral Industries Continuing Education until June 30, assuming the responsibilities held by Donald C. Jones before his retirement April 1. Hewes has been a member of the faculty since 1939.

Francis Costello, instructor in chemistry at the Schuylkill Campus, has been named to take part in the National Science Foundation's research program for college teachers. He will work in the field of organic chemistry on strained ring systems at the University of Buffalo.

Athleen J. Stere, research assistant at the Albert Einstein Medical Center since 1959, has been appointed research assistant in zoology. She was graduated from Bryn Mawr College and was granted the master of arts degree in biology from Radcliffe College. She has been research assistant at Boston University and teaching fellow at Harvard.

Leaves of absence for a six-months period beginning July 1 have been approved for Robert G. Wingard, chairman of forestry and wildlife management extension, and William M. Carrol, agricultural extension economist in public affairs. Both will be concerned with a study and evaluation of various planning procedures in rural and rural-urban areas of the northeastern U. S.

MacKenzie cited

Ossian R. MacKenzie, dean of the College of Business Administration, was cited as a Distinguished Montanan last Friday at the Montana Centennial Dinner in Washington, D. C. The affair honors Montanans who have distinguished themselves nationally.



In the audio-tutorial laboratory for Botany 27, Walter Westerfeld, left, assistant professor of botany, discusses with graduate student Charles Curry the progress of students in a recent experiment. The laboratory experience is quite different for students than it would have been under the traditional method of teaching lab.

Tape recorders aid

New Botany Laboratory

Techniques common today in language laboratories are being put to a unique use in Botany 27, a general course with laboratory work taken as a required science elective by students of many different major fields.

Walter F. Westerfeld, assistant professor of botany, teaches the course and has developed the use of tape recorders to give laboratory instructions and general information to 120 students this term, thereby helping to solve a space problem, improve instruction, and make the student's program more flexible.

The course has the traditional twice-a-week lecture plus a period for laboratory experience. The total class time allotted under the new method is no different from what it was under the old, except that students now schedule a specific laboratory within a broad schedule of 30 hours per week. Under usual procedures, the class would have been divided into three sections and the students assigned to a section meeting at a designated time.

When the student enters the laboratory, he goes to a "station" which is unoccupied and proceeds on his own to carry out the experiment for the week. He puts on headphones which are connected to his personal tape recorder and which has a tape of instructions for the experiment. His "station" also has a microscope or other equipment needed for the specific experiment and on the "peg-board" sides of the station may be attached certain types of instructions, drawings, or information. Botanical materials and chemicals he will need in the experiment are on a table nearby.

In the first laboratory period the student was given very explicit instructions on the operation of the tape recorder, including the controls which permit the student to start the tape at any point or rewind to repeat instructions he failed to understand. A counter on the tape recorder indicates how much of the tape has been run and instructions frequently refer to the counter number.

Westerfeld himself makes the tapes, including much of the same material which he customarily gave to laboratory sections in person, but adapting other parts to the new method. There are some other differences, occasioned by the fact that some of the approaches to the laboratory experience have been changed along with the methods. For example, students used to spend long, and undoubtedly tedious, hours making detailed drawings of cells or plant materials. Whatever the justification for such laboratory practice it is no longer done, and Westerfeld is able to give the class material not previously possible because there was not enough time.



At left, freshman Robert C. Miller, gets instructions from tape recorder on operation of microscope in one of early labs in term. At right, William Bloom carries on in experiment after obtaining instructions from tape recorder.



At all times that the laboratory is open, there is a graduate assistant on hand to help the individual student and, when the student indicates he is ready, to give him an oral quiz on the week's work.

These are some of the instructional advantages to the Botany 27 method, as Westerfeld now sees them:

1. The student can work at his own pace. Those able to grasp instructions and principles quickly are not held back by the slower students.

2. For those who need it, the potential to repeat instructions or information is very great, at the control of the student himself.

3. There is justification for more expensive, and more useful, supplies of certain types since it is not necessary to have as many "stations" as it was with the traditional methods. For example, some types of slide specimens cost as much as \$5 each. To supply a laboratory having 48 stations was too costly so it was common practice to accept a second-rate quality for much less money. With only eight "stations," the cost of the best available per laboratory is much less.

4. Students who formerly were reluctant to ask questions (because they did not want to appear to be lacking in intelligence), can ask as many as they wish by rewinding the tape or by asking the graduate assistant personally, and quietly.

5. The opportunity is available, although no definite plans have been made to take advantage of the situation, to provide superior students with either more experiments or more difficult assignments. Westerfeld feels that with more experience in handling lab classes this way, the department can take steps to individualize the instruction even more than is done now.

6. The student can work his laboratory time in to suit his total pro-

gram, so that if it is necessary for him to delay the laboratory exercises to do library work in any of his courses, it is possible for him to do so. In effect, the flexibility of the Botany 27 laboratory aids the student in other courses. In more than one case the student was able to schedule a needed course which would have conflicted with the regular botany period. The laboratory is open some evenings and Saturday morning as well as over meal hours.

The new method has been in effect only this term and the preparation for it has taken much of Westerfeld's time. Westerfeld personally worked at constructing the "stations," doing hammer-and-saw work to reduce the initial cost and to get the program underway quickly. As it was, delays in receiving equipment postponed the target date for initiating the program from the Fall Term until now.

Master tapes are cut by Westerfeld in his office when the rest of the building is quiet and he can control the sound levels easily. He points out that he had no previous experience with tape recorders and has little knowledge of electronics, so that it is reasonable to assume that nearly all instructors could set up such a laboratory and develop the necessary techniques for its use, with help in selection of equipment.

He himself got ideas from Purdue University where the original adaptation was made by Dr. S. N. Postlethwait. As far as is known, Penn State and Purdue are the only universities operating such laboratories.

From an administrative standpoint,

VISITING THE LAB

The audio-tutorial laboratory in botany is in Room 207 Buckhout Laboratory and may be visited Thursday, 1-10 p.m., Friday, 1-5 p.m., Monday, 1-10 p.m., and Tuesday, 8 a.m. to 5 p.m.

there are several obvious advantages to the method. Although the cost-per-station for new equipment and construction appears to be about \$300, the total cost of a laboratory may not be much more than that of a 48-station laboratory of conventional design. Moreover, the cost-per-laboratory-per-year may be very much reduced below that for conventional design because devices such as tape recorders and master recorders can be used for many years. Westerfeld points out that the task of making duplicate tapes, which he now does singly in his office, can be done more easily on fairly expensive equipment which makes up to 30 copies at one time and which might be centrally located on the campus and used by many departments.

One of the very distinctive advantages develops in scheduling classes, an administrative problem for both the department and for the university as a whole. In effect, the laboratory is scheduled by appointment, and students can feel certain of obtaining a time which would not conflict with other scheduled classes because a very broad scheduling of the laboratory may be obtained. However, by doing so, the laboratory physically is tied up for the week for one class. In some areas, duplicate use of the laboratory space would preclude scheduling up to 30 or 40 hours for one class, but the fact remains that far less space is required at one time. A re-design of some laboratories may be suggested if the total enrollment does not increase sharply enough to make use of existing laboratories to capacity.

The use of relatively inexpensive tapes which can be used again and again, and which can be altered easily, reduces the costs of instructional materials, which were traditionally printed laboratory manuals. Although he has not done so yet, Wes-

terfeld feels that he can make changes in the laboratory procedures very easily, introduce newer experiments if desirable, or change the sequence of experiments simply by altering the tapes.

Some student comments elicited after several weeks operation of the laboratory are:

"I definitely like the audio-tutorial system and believe it to be of great advantage to a lab student, especially a beginner. Completely inexperienced as I am, I can take as much time as necessary to do and understand things, which someone with any lab experience must find very simple and easy to comprehend."

"I found this arrangement very effective and possessing many potentialities. The physical layout in itself provided adequate room to move about in performing the required tasks. The instructions were quite adequate, but the tendency on my part, when a question arose, was to avoid referring this question to the assistant. Instead, it usually went unanswered; this may be due to the experience of the first time. I did enjoy the opportunity of being able to play back anything which was in itself unclear."

"I like the system, without a set lab period, I was able to take another three-credit course which otherwise I would not have been able to schedule."

Westerfeld says that there are some problems to be solved and some proof established as to the effectiveness of this method of teaching before it can be called an unqualified success. In the beginning stages, the problems are solvable. The ultimate effectiveness in teaching Botany can only be demonstrated with time, but it looks very promising.

CALENDAR



Friday, April 24

Home Economics Spring Weekend, all day. Featured speaker, Mrs. Esther Peterson, Assistant Secretary of Labor for Labor Standards, 3:55 p.m., Schwab Auditorium, on "Young People as Consumers."

University Lecture Series talk by Sir Julian Huxley, scientist and author, on "The Humanist Revolution," 8:30 p.m., Schwab.

WRA "Aquacade," White Hall pool, 8 p.m.

Interlandia Folk Dance, 7:30 p.m., Conference Center.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. George E. Brayton, North American Aviation, Cleveland, Ohio, on "Oceanographic Investigations in the Alaskan Arctic."

Physics Colloquium, 4 p.m., Room 117 Osmond. Dr. James S. Koehler, department of physics, Univ. of Illinois, on "Point Imperfections in Metals."

Sixteenth Annual Reading Festival, HUB assembly hall, sessions on poetry and drama.

Saturday, April 25

Athletics: baseball, vs. Colgate, 1 p.m.; golf, vs. Navy, 1 p.m.; lacrosse, vs. Rutgers, 2 p.m.; tennis, vs. Maryland, 2 p.m.

Saturday Lecture, by Dr. Kyle Haselden, managing editor, *The Christian Century*, on "Protestantism and Public Opinion," 8 p.m., Room 101 Chambers.

WRA "Aquacade," 8 p.m., White Hall Pool.

Organ concert by Dr. Leonard Raver, 8:30 p.m., Schwab Auditorium.

Sunday, April 26

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Kyle Haselden, managing editor, *The Christian Century*, on "Do We Have To?"

Combined Concert, Men's Glee Club and Women's Chorus, 3 p.m., Schwab Auditorium.

Monday, April 27

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A."

College of Health and Physical Education faculty meeting, 7 p.m., White Building recreation room.

Simmons Series lecture by Dr. Haskell Block, Brooklyn College, on "The Impact of French Symbolism on Modern American Poetry," 4 p.m., HUB assembly room.

Marie Curie lecture by Dr. Elzabeth Rona, Oak Ridge Institute of Nuclear Studies, 7 p.m., Room 310 Whitmore, on "Radioactivity of the Ocean," sponsored by Iota Sigma Pi.

Tuesday, April 28

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. Ned Shilling, assistant director, Bureau of Business Research, on "A Generalization of Excise Tax Theory. Part II: Effects on Selling Effort and Product Quality."

Lecture by Dr. Lillian Gilbreth, management consultant, on "Some Management Problems Today," 4 p.m., Mineral Industries Auditorium.

Opening night of University Theatre production of "Thieves' Carnival," 8 p.m., Pavilion Theatre. Runs April 28-May 2 and May 8, 9.

Wednesday, April 29

Sigma Xi initiation banquet, 6 p.m., Nittany Lion Inn. Dr. Marsh White, professor emeritus of physics, on "Criterion for Membership in the Society of Sigma Xi."

"American Issues" symposium, 8 p.m., Room 101 Chambers, with panelists Samuel P. Bayard, Paul B. Foresman, and Alan Trachtenberg, and moderator Chadwick C. Hansen, on "Cultural Unity: Equality and Diversity."

Thursday, April 30

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Jean Gottman, University of Paris, on "Some Lessons from the Study of Megalopolis."

Biological Science Lecture Series, 3:55 p.m., Room 214 Bouck. Dr. Ruth Sager, Columbia University, on "Mutation of Inherited Cytoplasmic Factors."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Russell S. Drago, University of Illinois.

Friday, May 1

Interlandia Folk Dance, 7:30 p.m., Conference Center.

Penn State Singers Concert, 8 p.m., Schwab Auditorium.

read selections from the Bible, from great literature, and theatre stories.

YORK CAMPUS

The telephone numbers at the York Campus are now: Commonwealth Campus, 846-8828; Continuing Education, 843-8964.

NSF FELLOWSHIPS

Ten Penn State students have been named to receive National Science Foundation fellowships for graduate study and eight will enroll at the University. Ten other students received honorable mention in the awards program. Of those receiving fellowships, two are in chemistry, two in physics, two in earth sciences, two in engineering, and one each in mathematics and genetics.

SYMPOSIUM

Continuing Education Services is co-operating with Jefferson Medical College to conduct a symposium on neoplastic diseases for physicians of Pennsylvania and surrounding states May 7-9 at Pocono Manor Inn.

FLOWER JUDGING

Penn State's flower judging team, coached by Dr. Peter B. Pfahl, assistant professor of floriculture, placed second in a field of eight teams in the National Intercollegiate Flower Judging contest at San Luis Obispo, Calif., recently. Penn State students placed first and third in individual scoring.

GRADUATE EXAM

The Graduate Record Examination will be held tomorrow (Saturday) in

Room 123 Chambers Building, the Aptitude Test at 8:45 a.m. and the Advanced Test at 1:45 p.m.

SCHOLARSHIP

The Life Assurance Co. of Pennsylvania, of Philadelphia, has established a scholarship program to aid outstanding students who have completed two years of work in any undergraduate program. Two students will be chosen each year for two-year scholarships of \$500 each.

OGONTZ SHOW

Hans Conreid, actor and television personality, will present a one-man show at the Ogontz Campus May 2, giving a variety of performances from Shakespearean roles to comedy routines. He will

ITEMS OF INTEREST



Articles and Papers

Twenty-three faculty members and graduate students took part in three meetings in Washington, D. C., last week concerned with research in the gaseous envelope which surrounds the earth. Papers were presented by the following:

At the meeting of the International Scientific Radio Union, these faculty members and graduate students in the Ionosphere Research Laboratory: W. J. Ross, Hai Sup Lee, J. J. Gibbons (physics), J. S. Nisbet, T. A. Seliga, A. J. Ferraro, A. P. Mitra (consultant to IRL), P. E. Crouse, C. F. Tou, F. D. Palluconi, F. H. Hibbard, S. Weisbrod, T. W. Speiser, and R. E. Hartle.

At the Solar-Terrestrial Relationships Symposium, J. P. Hagen, J. S. Nisbet, Richard Vargas-Vila, and W. Swider.

At the American Meteorological Society meeting, H. A. Panofsky, R. T. Duquet, and N. Phares.

Other Articles and Papers reported recently include:

ANTHONY, ADAM, zoology, with R. J. FERGUSON, "The Skin Homograft Reaction in Mice Acclimated to Reduced Pressure," at meetings of the American Association of Anatomists, in Denver.

BRILHART, J. K., speech, "The Contributions of 'Field-Like' Studies in Group Communication" at the 55th annual convention of the Speech Association of the Eastern States.

BRODERICK, C. B., family relationships, "Family-Life Education versus Reality," in the February issue of *Journal of Marriage and the Family*.

CONWELL, MARILYN J., Romance languages at Ogontz, "An Evaluation of the Keating Report," in the March issue of the *Bulletin of the National Association of Secondary School Principals*.

DE LISSOVOY, VLADIMIR, child development and family relationships, "High School Marriages in Pennsylvania, a Study of Incidence," in the April issue of the *Pennsylvania School Journal*.

FERGUS, C. L., botany, "Thermophilic and Thermotolerant Molds and Actinomycetes of Mushroom Compost during Peak Heating," in the March-April issue of *Micologia*.

GREENHILL, L. P., UDIS, "Instructional Instrumentation for Large Classes," before the 19th annual National Conference on Higher Education of the Association for Higher Education, N.E.A., in Chicago, and before the National Convention of the Department of Audio-Visual Instruction, N.E.A. in Rochester, N. Y.

HAGAN, J. P., radio astronomy, "Navigating the Gravity Wells of Interplanetary Space" in the April 4 issue of *The Saturday Review*.

HUTTON, H. K., educational services, "Fermat in English Education," in the March issue of the *Pennsylvania School Journal*.

KLAUS, E. E., and BIEBER, H. E., chemical engineering, "Effect of Some Physical and Chemical Properties of Lubricants on Boundary Lubrication" in *American Society of Lubrication Engineers Transactions* for January.

LECZAR, F. J., physics, "Principles of Coal Separation in Launderers," in the January issue of the *Indian Journal of Technology*.

MCCROSKEY, JAMES, speech, "Debating Both Sides Ethical? Controversy Pau" in the February issue of the *Central States Speech Journal*.

— "Characteristics of Selected NFL Sponsors," in the February issue of *Rostrum*.

MCMALE, W. J., family housing and home art, "As We See Ourselves," before the Fourth National Conference of Art in Home Economics at Oklahoma State University.

MULAY, L. N., solid state science, and Indumati L. Mulay, materials science, "Magnetic Field Effects and Magnetic Studies on Biological Systems and Cancer."

NEUBERT, V. H., engineering mechanics, "Lumping of Mass in Calculating Vibration Response" in the February issue of the *Journal of the Engineering Mechanics Division of the American Society of Civil Engineers*.

OSIOW, S. H., Division of Counseling, "Comparisons between Cultural and Individual Associative Response Hierarchies," at the Eastern Psychological Association meetings in Philadelphia.

PIKE, RUTH L., foods and nutrition, with JANET M. WARDLAW, "Exhaustion of the Zone Glomerulosa Cells due to the Stress of Low Sodium Intake During Pregnancy in Rats," and with J. ELIZABETH MILES, "Effect of a Sodium Load on Plasma and Tissue Sodium, Juxtaglomerular Index and Zone Glomerulosa Width," both at the meeting of the Federation of American Societies for Experimental Biology in Chicago.

PRICE, R. G., philosophy, "Descriptive Metaphysics, Chinese, and the Oxford Common Room," in the January issue of "Mind," a quarterly review of Psychology and Philosophy.

PRYBYL, J. S., economics, "Soviet Economic Growth: Perspectives and Prospects" in the *Quarterly Review of Economics and Business*, spring issue.

READ, H. J., metallurgy, with G. W. BUSH, National Steel Corporation, "X-Ray Determination of Residual Stresses in Electrodeposited Coatings," in the March issue of the *Journal of the Electrochemical Society*.

ROTZOLL, KIM B., advertising, "The Starch and Ted Bates Correlative Measures of Advertising Effectiveness," in the March issue of the *Journal of Advertising Research*.

SIEGENTHALER, B. M., Speech and Hearing Clinic, and STRAND, R. A., electrical engineering, "Audiogram-Average Methods and SRT Scores," in the March issue of the *Journal of the Acoustical Society of America*.

faculty BULLETIN

Vol. 51, No. 40 April 24, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

LOUISE K. KELLY
401 PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

CALENDAR



Friday, May 1

Interlandia Folk Dance, 7:30 p.m., Conference Center.

Penn State Singers Concert, 8 p.m., Schwab.

Physics Colloquium, 4 p.m., Room 117 Osmond. Dr. Louis Rosen, physics division leader, Los Alamos Science Laboratory, on "Interaction of Basic Research and Technology at Los Alamos."

Pavilion Theatre production of Jean Anouilh's "Thieves Carnival," curtain time 8 p.m., also Saturday.

Saturday, May 2

Varsity athletics: golf, vs. Syracuse, 1 p.m.; track, vs. Michigan, 2 p.m.

Sunday, May 3

Chapel Service, 10:55 a.m., Schwab. The Rev. A. Marshall Laverty, Queen's Univ., Kingston, Ont., on "Learning to Live Together."

Monday, May 4

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Roy D. Anthony, State College mayor and professor emeritus of pomology, on "Asiatic Flowering Crab."

Engineering Mechanics Seminar, 4 p.m., Room 210 Hammond. L. R. McCreight, manager, Materials Science Section, General Electric Space Sciences Lab, on "Developing New High-Strength Fibrous Reinforced Composite Materials."

Home Economics Research Seminar, 3:55 p.m., Room 14 Home Economics. Moira C. Feeney, on "Intensity Dimension of the Sense of Taste in Preschool Children."

Glidden Co. Lecture in Chemistry, 2:20 p.m., Room 119 Osmond. Dr. E. Bright Wilson, Jr., Harvard University, on "Modern Problems in Molecular Spectroscopy."

Tuesday, May 5

University Senate meeting, 3:55 p.m., Room 121 Sparks.

Leiper Memorial Lecture, 8 p.m., Room 101 Chambers. Dr. Wilhelm Pauck, Union

(Continued on page three)

Press book wins

Designed by Marilyn Shobaken and published by the University Press, the book, "The Religious Speeches of Bernard Shaw" has been cited as one of the "Fifty Books of the Year," for 1963 by The American Institute of Graphic Arts.

The Institute says, in making announcement of the honor, that "The forty-second annual selection of the Fifty Books is again a sincere, if human, attempt to give recognition and honor to the best of American book-making. It is an appreciation of the taste and talent of the designers, the craftsmanship of the manufacturers, and the good sense of the publishers responsible for the creation of these volumes."

The AIGA membership consists of typographers, book designers, publishers, printers, bookbinders, plate-makers, and book materials suppliers. The 50 books constitute a national exhibit and five simultaneous exhibit openings are held in April and four traveling sets are sent by the U. S. Dept. of State to be shown at information centers throughout the world.

Warren S. Smith, professor of theatre arts, edited the Shaw speeches for the book.

Leiper lectures

An annual lecture series has been established by the University Christian Association, aided by a grant from the Board of the Westminster Foundation, as a memorial to the late Rev. Harold M. W. Leiper, who was associate director of the U.C.A. from 1954 until his death in 1960.

The first lectures in the series will be given May 5 and 6 at 8 p.m. in Room 101 Chambers by Wilhelm Pauck, professor of church history at Union Theological Seminary, New York, and one of the country's leading authorities on Martin Luther. He will speak on "Fresh Interpretations of Martin Luther."

Rev. Leiper was born of a missionary family and himself served in China just before the Communists took over and for a few months after the Peking area was communized. He was particularly concerned in his work here with the ecumenical approach to campus ministry.

Summer theatre

Pavilion Theatre has scheduled five plays for the summer, each play to run two weeks, Tuesday through Saturday.

The five plays are "The Typists and The Tiger"; "Man and Superman"; "Anastasia"; "Hotel Paradise"; and "A Thousand Clowns."

Students ask help

The University Student Government, through its Student-Faculty Relations Committee of the Educational Affairs Commission, is attempting to develop a positive program to promote student-faculty interaction.

The Committee is asking the aid of individual faculty members in the program, the first step of which is to develop a directory of faculty members interested in helping the program within their areas of interest, both professional and extraprofessional.

At present, the Committee points out, there are several interest groups in residence halls which together with fraternities and sororities serve as rallying points for extracurricular contact between students and faculty. Many students have no such organizations, however, and experience few faculty contacts outside their daily classes. Both the organized groups and the independents are asking for the opportunity to call upon individual faculty members who are willing to speak, advise, or otherwise take part in student-group activities.

The Committee's aim at this point is to provide an organization through which student groups will be able to call on faculty members for help in the widest possible variety of subject matter areas, from hunting and fishing to the social structure of India, from nuclear energy to Existentialist philosophy. Through such conversations, it is hoped that the student's total college experience will be broadened immeasurably.

In a few days, members of the Committee will contact individual faculty members and ask for their help in setting up the directory. Those who wish to aid the Committee may also phone their name, office address and telephone number, and areas of interest to either Pam Wheeler (865-6215 during the week or 238-0067) or Nancy Grace (865-7893).

Soviet education

Dr. Nicholas DeWitt, director of the International Survey of Educational Development and Planning, Indiana University, will speak on Soviet Education Wednesday, May 6, at 7:30 p.m. in the Laurel Room of the Nittany Lion Inn. The lecture is co-sponsored by the Russian Area Committee and the History Round Table.

Dr. DeWitt is author of "Education and Professional Employment in the U.S.S.R." and "Soviet Professional Manpower: Its Training and Supply."

PERSONNEL MATTERS



Dr. Lawrence W. Specht, associate professor of dairy science extension, will be on leave during the summer terms of 1964 and 1965 to do research in dairy cattle genetics at Cornell University. He will work with other dairy scientists in studies of dairy cattle populations.

Dr. Lionel Goodman, associate professor of chemistry, will be on leave for the months of May and June and as a Guggenheim Fellow will be visiting professor of the Faculty of Science at The Sorbonne in Paris. He will do research using the theoretical chemistry and physics laboratories and will also lecture.

Pentti A. Honkanen, formerly staff engineer with the International Business Machines Corp., has been appointed research assistant in the Ordnance Research Laboratory assigned to the acoustics and signal processing division for specialized computer studies. He is a University of Colorado graduate in electrical engineering and mathematics and obtained a master's degree at Syracuse University.

BOOKS



Dr. Peter J. Wyllie, associate professor of petrology, is author of a chapter titled, "Applications of High Pressure Studies to the Earth Sciences," for a book, "High Pressure Physics and Chemistry," edited by R. S. Bradley and published by Academic Press.

Dr. Howard W. Dunne, Dr. James L. Gobble, Dr. John F. Hokanson, and Dr. David C. Kradel, all of the College of Agriculture, have served as contributing authors to the new second edition of the book, "Diseases of Swine," published last week by the Iowa State University Press. Dr. Dunne was editor of the book.

The textbook in botany by Penn State faculty members, Drs. J. Ben Hill, Lee Overholt, Henry W. Popp, and Alvin R. Grove has been translated into Spanish and published by Ediciones Omega, S. A., of Barcelona, Spain. Publication rights have also been given to a Japanese publishing house for translation into Japanese and to another for translation into Hindustani. Both Hill and Overholt are deceased and Popp is professor emeritus of botany. Grove is acting head of the department.

Appointed by the President

International Studies

Just a year ago the International Studies Project was initiated by President Walker with the appointment of a committee to examine the role of the University in international affairs.

Central to the Project's purposes is the concern for the educational process at the University and particularly with respect to the non-western and developing areas of Asia, Africa, the Near East, and Latin America.

AMBULANCE

In response to a number of questions, the following information concerning coverage for ambulance service is provided by the Employee Benefits Division:

The University's Hospital Plan provides \$260 for additional benefits for hospital charges other than room and board. An ambulance charge can be paid under this benefit providing there is sufficient money left after the hospital has been paid for its charges. If no benefits are available under the hospital plan, an ambulance charge can be covered under the Major Medical Plan. However, a claim can be started under the Major Medical Plan only after an insured person can show "out-of-pocket" expenses in excess of \$100 for the same or related illness or injury.

LIBRARY

Charles F. Jackson, sophomore in arts and letters from Erie, won first prize in the Personal Library Competition for Undergraduates and is thereby qualified to enter the national Amy Loveman Competition, the winner of which is awarded \$1,000 for the best personal undergraduate library. The local sponsors were Keeler's, the Pennsylvania Book Shop, and Nittany News.

SENATE MEETING

The University Senate will meet Tuesday, May 5, at 3:55 p.m. in Room 121 Sparks.

LUNCHEON CLUB

Dr. Roy Anthony, mayor of State College and professor emeritus of pomology, will be the speaker for the Faculty Luncheon Club meeting Monday, May 4, at 12:30 p.m. in HUB dining room "A."

ALUMNI FUND

Contributions to the Alumni Fund, which closes June 30, totalled \$238,188.06 from 9,060 contributors as of April 27.

The executive committee of the Project includes Dr. Clarence Thurber (Public Administration) chairman, and Paul Bixby (Education), Ken Forster (history), Macklin E. John (rural sociology), Russell Larson (Agriculture), and Robert Scholten (geology).

Four sub-committees are currently working on various specialized problems of development in the land areas under study: Agricultural and Rural Development; Industrialization and Urbanization; Education in the Developing Areas; and Government Policy and Action. The committees focus their attention on resources throughout the University on these problems, in the belief that one of the country's needs is to advance its own knowledge about the developing areas and that vehicles should be created in the University for continuing investigation.

The Agricultural subcommittee has considered long-range and immediate goals which might be taken by the several departments and the University generally. The Education subcommittee has initiated research to ascertain what is being done at other colleges and universities in this area of interest and has compiled a list of undergraduate and graduate courses relating to the developing areas and a resume of programs in education and developing areas in selected universities.

In addition to the developing areas, the Committee is concerned with Penn State's relationships to Europe, and especially relations between American scholars and scientists and their European counterparts. One question in particular interests the Committee at the moment: how is the on-campus educational environment affected by University participation in various special international activities?

Another goal of the Committee is to investigate the nature, content, organization, and financing of international programs at other leading American universities, to learn from available experience.

The entire investigation is being financed by a grant from the Ford Foundation. By the spring of 1965, the Committee expects to submit a final report with policy recommendations.

Drill team

The 11th annual Tri-Service Drill Competition will be held Sunday, May 10, at 2 p.m., as part of Mother's Day activities. The competition will take place in Beaver Stadium or, in case of inclement weather, in the Ice Rink Pavilion.

President Walker is sponsor of the event, which is participated in by Army, Navy, and Air Force Reserve Officers Training Corps cadets. It will feature both Standard Drill and Trick Drill competition which the cadets have been training for in many hours of drill.

The colorful ceremonies will include recognition of Mrs. Clyde Jackson, Penn State's Mother of the Year, whose twin sons George and Guy, and a third son, Bob, are prominent in student activities.

Conformity

"Conformity" a public affairs video tape narrated by Harry Reasoner will be shown in 209 Home Economics South Building on May 7 and 8.

This documentary will be shown continuously for 4, 5 and 6 periods, 12:45 to 5:10 p.m. on Thursday, May 7. On Friday, May 8, it will be shown continuously during 2 and 3 periods, 9:35 a.m. to 12:25 p.m. and from 2:20 to 3:35 p.m.

Anyone desiring to see the tape may do so during these periods. The College of Home Economics is sponsor of the showings.

Roberts lecture

The director of the National Center for Atmospheric Research, Dr. Walter Orr Roberts, will speak on the subject, "Can Man Control the Weather," Wednesday, May 6 at 8:30 p.m. in Room 121 Sparks.

The talk is jointly sponsored by the Graduate School and Phi Beta Kappa, national honorary society. Dr. Roberts is currently a Phi Beta Kappa Visiting Scholar.

Patton patent

U. S. Patent No. 3,127,275, for an invention, "Flavor Stabilization in Milk Fat," has been issued to Dr. Stuart Patton, professor of dairy science.

Involved is a method of making flavor-stabilized milk products by subjecting milk fat to the action of steam under high vacuum at a temperature exceeding 100 deg. C., then emulsifying the steam-treated milk fat with fat-free milk.

ITEMS OF INTEREST



LECTURES AND TALKS

AIWATER, ELTON, political science, "United Nations Peacekeeping Operations" before the Lock Haven State College International Relations Club.

COFER, C. N., psychology, the Presidential address at the 35th annual meeting of the Eastern Psychological Association, on "Some Factors in the Organizational and Other Characteristics of Certain Verbal Processes."

COLOGNE, ROSE M., home-community relationships, "How Women Can Involve Themselves in World Affairs," before the Grove City Junior Women's Club.

DAVIDS, NORMAN, engineering mechanics, "Computer Analysis Methods" at a Ballistics Research Laboratory Colloquium at Aberdeen, Md.

GOULD, PETER, geography, seminar lecture on "Games Against Nature," in a quantitative geography seminar at Cornell University.

HARSHBARGER, L. H., humanities and religious studies, the baccalaureate service speaker at Spring commencement exercises at Bloomsburg State College.

HARRISON, J. M., journalism, panelist in discussion on "How Can the Undergraduate College Channel to Constructive Ends the Present Climate of Student Criticism and Desire for Independence," at the 19th annual National Conference on Higher Education at Chicago.

HASSLER, W. W., JR., American history, at Lock Haven State College, "The Civil War's Most Controversial Figure: General George B. McClellan" and "The Significance of the American Civil War."

HIDE, EUGENE, New Kensington, "How to Choose a College," at Etna High School College Night program.

— "Your Penn State Center," at the Freeport High School Career Night.

HYSLOP, LOIS BOE, French, "Baudelaire: A Modern Poet," at Susquehanna University, April 21.

KAFKA, ANDREW, English at Hazleton, "What Is the Reading Process? Nine Aspects of Reading in the Order of Ascending Difficulty," before the P.T.A. of Butler Township.

KLAUS, E. E., chemical engineering, "Development of Super-Refined Mineral Oils and Their Use in Lubricant Research," for the Penn-York Section of the American Chemical Society.

MATHL, E. L., art education, talks before the Southeastern Arts Association at Nashville, Tenn.; sections at Montgomery and Birmingham, Ala., of the Alabama Education Association; and to the Western Arts Association in Minneapolis.

McKINLEY, D. H., Business Administration, Seminar in Transportation and Traffic at Kutztown State College.

— "Economic Crossroads in 1964," for group of 375 Connecticut bankers and directors at the annual Bank Directors Conference in Cheshire, Conn.

MUTLER, E. W., physics, "Problems of Field Ion Microscopy," at the Cornell University Materials Science Center Lecture Series.

— "Advances in Field Ion Microscopy," for the Glidden Lecture Series of the University of Maryland chemistry department.

— "Surface Studies at the Atomic Level" and "Seeing the Atom," at the Surface Physics Symposium at Washington State University May 8.

NIEBEL, B. W., industrial engineering, "Mechanical Process Selection for Planning New Designs" before the Harrisburg Area chapter of the American Institute of Industrial Engineers.

OLIVER, R. T., speech, "Education in the Year 2000 A.D.," at the annual luncheon of the Speech Association of the Eastern States.

OVERDIER, PATRICIA M., mathematics at Ogontz, "Use of Programmed Instruction in Engineering Education," at the higher education session of the annual convention of the National Society for Programmed Instruction in San Antonio, Texas.

SABEAN, S. C., Arts and Architecture, talk at a one-day seminar for press photographers at New Kensington, April 25.

VANDERMER, A. W., Education, "Operations Research as Applied to Instructional Materials," at an Instructional Communications Research Conference at Syracuse University.

WILLIAMSON, M. A., Engineering, "Engineers, Scientists, and Challenges," at the Naval Ordnance Test Station at China Lake, Calif.

CALENDAR —

(Continued from page one)

Theological Seminary, on "Fresh Interpretation of Martin Luther." Also Wednesday.

Wednesday, May 6

Biological Science Lecture Series, 3:55 p.m., Room 214 Boucke. Dr. Earl H. Newcomer, professor of botany, University of Connecticut, on "Avian Cytology and Cytogenetics."

Lecture by Dr. Nicholas DeWitt, Indiana University, on "Soviet Education," 7:30 p.m., Nittany Lion Inn Laurel Room, sponsored by the Russian Area Committee and History Round Table.

Thursday, May 7

Physics Colloquium, 4 p.m., Room 117 Osmond. Dr. J. E. Perring, British Atomic Energy Establishment at Harwell, England, on "Analysis of Neutron-Scattering."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. D. Hirschbach, Harvard University, on "Molecular Mechanics of Chemical Reactions."

Penn State Thespian's production of "L'il Abner," 8 p.m., Schwab, directed by Allan Just, from Broadway show based on the Al Capp cartoon, with book by Norman Panama and Melvin Frank, lyrics by Johnny Mercer, and music by Gene d'Paul. Also Friday and Saturday at 8 p.m. and matinee at 2 p.m., Saturday.

Friday, May 8

Pavilion Theatre production of "Thieves Carnival," 8 p.m. Interlandia Folk Dance, 7:30 p.m., HUB ball room.

GRANTS



W. H. Powers, Science Continuing Education, \$40,290, National Science Foundation, for an in-service institute in science and mathematics for high school teachers.

R. J. Snetzinger, agricultural entomology, \$1,000, Shell Chemical Co., for research in insecticides for control of insects on mushrooms and ornamental plants.

R. W. Lindsay, metallurgy, \$800, International Nickel Co., Inc., for research in metallurgy.

F. H. Lewis, plant pathology, \$400, FMC Corporation, for studies of diseases of deciduous fruits.

Dean Asquith and **F. H. Lewis**, plant pathology and entomology, \$1,000, Shell Development Co., for studies on fungicides and insecticides.

Dean Asquith, entomology, \$400, FMC Corporation, for research on insects of deciduous fruits.

F. N. Hewetson, horticulture, \$750, Thompson-Hayward Chemical Co., for herbicide research on fruit trees.

D. R. McClay, **G. Z. Stevens**, and **N. K. Hoover**, \$7,050, Penna. Dept. of Public instruction, for study of continuing education needs in agricultural occupations.

Sam Shulits and **F. H. Blue**, civil engineering, \$10,000, Penna. Dept. of Forests and Waters, for tests on hydraulic models.

F. R. Axelson, Institute for Building Research, \$5,000, General State Authority, for advisory services in design of boiler plants and steam distribution systems for GSA projects.

F. W. Lampe, chemistry, \$74,812, U. S. Air Force, for fundamental studies in gas-phase radiation chemistry.

J. W. Bratzler, animal industry and nutrition, and **W. L. Kjelgaard**, agricultural engineering, \$5,000, New Holland Machine

Co., for research on preservation and nutritive evaluation of corn silage.

H. G. Richey, Jr., chemistry, \$14,950, Alfred P. Sloan Foundation, for research fellowship in chemistry. Also, \$1,000 for major capital equipment.

W. C. Luth, **R. H. Jahns**, and **O. F. Tuttle**, geochemistry and mineralogy, \$33,500 for two years, National Science Foundation, for studies of phase relations in the systems potassium and sodium-aluminum silicates.

F. R. Axelson, Institute for Building Research, \$44,428, Commonwealth of Pennsylvania, for the Power Plant Advisory Service.

Adam Anthony, zoology, \$3,600, National Institutes of Health, for research on the oxidative phosphorylation during cold adaptation.

S. R. Person, biophysics, \$22,200, U. S. Public Health Service, for physical studies of cellular synthesis.

J. S. Lindzey, Penna. Cooperative Wildlife Unit, \$1,000, Penna. Game Commission, to make investigations with deer.

E. B. VanOrmer, Graduate School, \$63,934, National Science Foundation for 13 graduate traineeships in engineering, two each in aeronautical, electrical, mechanical, metallurgy, and nuclear engineering and three to be assigned.

H. K. Schilling, Graduate School, \$212,400, N.A.S.A., for 12 traineeships in various departments in space-related sciences and technology.

R. W. Lindsay, metallurgy, \$16,679, National Science Foundation, to support Senior Foreign Scientist Fellowship.

R. W. Lindsay, metallurgy, \$800, Ford Motor Co., for the cooperative research program in metallurgy.

L. H. Harshbarger, religious studies, \$15,000, United Church Board for Homeland Ministries, for research program in religion. Also, \$15,000 for the same purpose from the United Presbyterian Church in the U.S.A.

E. R. McLaughlin, Institute for Building Research, \$4,000, Paul Morrow Co., Inc., for research on performance of a refrigeration and chemical dehumidifier.

THE ARTS



art lecture

Dr. Arnold Noach, visiting professor of art and architectural history, will lecture on "The Pantheon and the Survival of Antiquity," Tuesday, May 12, at 8 p.m. in the HUB Assembly Room.

A specialist in the architectural history of the Baroque, Dr. Noach is from the University of Leeds, England, and previously was the cataloguer of architectural drawings, of the Royal Library, Windsor Castle.

singers concert

The 28-voice madrigal group, The Penn State Singers, directed by Raymond Brown, associate professor of music, will feature the music of four centuries in its program this evening at 8 p.m. in Schwab Auditorium.

The Singers will open the program with songs by Thomas Morley, Thomas Weelkes, John Bennet, Josquin Des Pres, John IV, King of Portugal, and Henry VIII, as well as the anonymous "Sumer Is Icumen In."

Joseph Krimmel, tenor, and Dale Livingston, baritone, will be featured in the Cantata, "Mein Herz Ist Bereit," by Johann Vierdanck, also of the 17th century.

Three songs by Claude Debussy will be sung by the chorus before intermission, following which Josephine Sbarbaro, accompanied by two oboes, two horns, and the organ, will sing Mozart's motet, "Exultate, Jubilate."

faculty BULLETIN

Vol. 51, No. 41 May 1, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY



faculty **BULLETIN**

**A Weekly Publication
The Pennsylvania
State University**

Teachers conference

The ninth annual conference of Teachers of Mathematics of the Commonwealth Campuses will be held at University Park, Friday and Saturday, May 15 and 16.

Among the participants will be Drs. C. I. Noll, acting dean of the College of Science, R. D. Ayoub, acting head of the department of mathematics, and the following members of the math department: Dr. Donald Rung, Dr. Sidney Mack, Frank Kocher, Anton Glaser, and Chauncey Key.

Dr. Hans J. Zassenhaus, professor of mathematics at Ohio State University, will speak on "Primitive Roots," in Room 214 Boucke Friday evening at 8 p.m., following the annual dinner in the HUB.

Colloquy

An Emerson Society Colloquy on "Perspectives of Religion" will be held in three sessions, the first of which will have as participants, Dr. Henry Finch, professor of philosophy, and Dr. Harold K. Schilling, dean of the Graduate School. The meeting will be held Monday, May 11 at 8 p.m. in the HUB auditorium.

The other two sessions will be held May 18, with Dr. J. Mitchell Morse and Paul Edmonston as speakers, and May 25, with Joseph F. Faulkner and Dr. John Walmer.

Purpose of the Colloquy is to present the personal views of religion from the perspective of the speakers' disciplines.

Science citation index

The University Library has acquired a five-volume set of "Science Citation Index," which is of value to anyone searching library materials for science references.

The Index is housed in the Chemistry-Physics Library and is available to the faculty of all colleges.

Developed by the Institute for Scientific Information, the Citation Index was designed to list by author papers of the life and physical sci-

ences to which reference was made by scientists in 1961 in a total of 613 key science journals processed. The journals were from 28 different countries. The five volumes contain 1,400,000 citations, 84% of which are from journals and 16% of which are from books, meetings, dissertations, reports, contracts, patents, circulars, personal communications, etc.

The searcher needs to know only a specific paper given in 1961 or earlier as a starting point. Anyone can then take over the searching work. Listed are the cited author, the citing author, the reference year of the cited author's paper, the name of the publication in which the cited paper appears or in which the citing author's paper appears, the volume and page of the respective papers.

In addition to the citations of references to the original paper, the Index also lists other papers by the same cited author, each with its own group of citing authors.

The result is a literature network by which the searcher can be especially thorough in his endeavors. The completeness of the Index is illustrated by references in 1961 to a paper Albert Einstein wrote in 1906 and to which authors referred in papers on the physical properties of milk, on calculations relating to the Flory universal constant, on lecithin micelles, on mechanical and colloidal properties of amoeba protoplasm, and on biophysical studies.

Cook-out

An all-University cook-out, sponsored by campus and community organizations, will be staged Monday, May 11 from 4:30 to 7:00 p.m. to mark the opening of the new closed-pit beef barbecuing facility at the picnic area adjacent to University Drive west of Beaver Stadium.

Proceeds from the cook-out will go to help defray the living expenses of Peter von Butler, West German forestry student coming this summer from Goettingen University.

Drill competition

A highlight of Mother's Day activities on the campus Sunday will be the 11th annual drill competition featuring standard and trick drill competition by Army, Navy, and Air Force R.O.T.C. units, at 2 p.m. in Beaver Stadium.

Attired in kilts and led by a bag-piper, the Army team will defend its President's Cup title.

Philosophy

Dr. John Smith, head of the department of philosophy at Yale University, will give the principal talk Saturday at 10:30 a.m. in Room 111 Boucke for the meeting of the Western Penna. Philosophical Society. He will speak on "Initiative and Discursive Elements in Self Knowledge."

A panel discussion will feature the afternoon program at 2 p.m. in Room 111 Boucke. The topic is "Knowledge of the Self in Religion," and the panel will include Rabbi Walter Jacob, Rodef Shalom, Pittsburgh; The Reverent Henry Ten Koortenaar, of the Pittsburgh Oratory; and Dr. George Kehm, of the Pittsburgh Theological Seminary. Moderator will be Dr. Willard Arnett, Chatham College.

Armed Forces

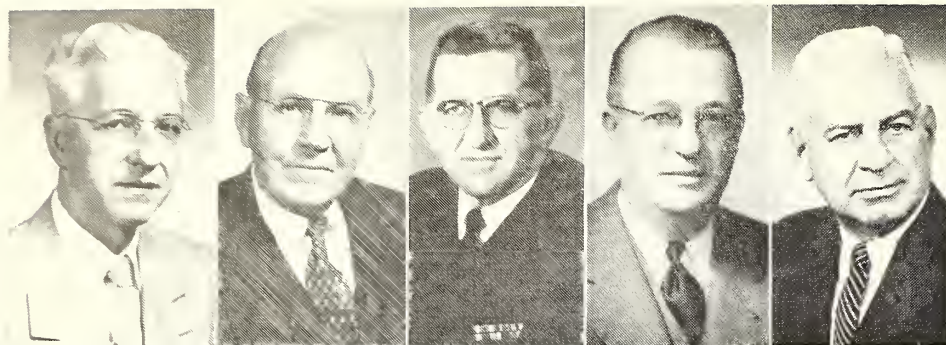
Armed Forces week will be observed May 9-17, with the theme, "Power for Peace." A military parade will be held Thursday, May 14, at 6:30 p.m. in State College streets and participating will be marching and band units from the Army, Navy, and Air Force R.O.T.C. as well as local units. Displays covering the three services will be open to the public at the R.O.T.C. Armory, south of the Wagner Building according to the following schedule: Thursday, 7:30 to 9 p.m.; Friday, 7:30 to 9 p.m.; Saturday, 10 a.m. to noon.

Film program

Two outstanding films will be shown under the sponsorship of the West Halls Cultural and Religious Affairs Committee and both are open to the entire University community.

Sunday, May 10, at 7 p.m. and 9 p.m., the Ingmar Bergman film, "The Virgin Spring," will be shown in Room 121 Sparks.

Sunday, May 24, the film, "All My Sons," film version of the Arthur Miller award-winning play, will be shown at 7 p.m., in Room 121 Sparks.



Lightner, Mauthe, Osborne, Rowland, Woomer

Distinguished Alumni named

Five University graduates will be honored as Distinguished Alumni June 20 during the annual Alumni Reunions and Institute program. They were selected for the award which was established in 1951 to honor those alumni whose "personal life, professional achievements, and community service exemplify the objectives of The Pennsylvania State University."

Selected for the awards were:

Max W. Lightner, Pittsburgh, vice-president for applied research, U. S. Steel Corporation. His entire professional life has been intimately associated with research and development activities related to steel-making. He was the second recipient, in 1950, of the David Ford McFarland Award given yearly by the Penn State chapter of the American Society for Metals for achievement in metallurgy. He was graduated in 1929.

J. L. Mauthe, Poland Manor, Poland, Ohio, is the retired president and chairman of the board of Youngstown Sheet and Tube Co., Youngstown, Ohio. A football star at Penn State in his undergraduate days, he spent one year following graduation in 1913 as football coach at Gettysburg, then entered the steel industry which he served continuously until he retired in 1963. He has been an alumni member of the Board of Trustees of the University since 1938. He was the first to receive the David Ford McFarland Award, in 1951. He is the donor of the J. L. Mauthe Scholarship, in remembrance of the Class of 1913.

Capt. David P. Osborne, U. S. Navy, Bethesda, Md., chief of surgical service, National Naval Medical Center, is a 1938 graduate in pre-medical curriculum. He enrolled at Temple University and after graduation in 1942

went on active duty in the Navy Medical Corps. He became a medical officer on the staff of Commander Group 34, a part of the Twelfth Fleet Operation supporting the Normandy Invasion in which he was responsible for "saving innumerable lives," as the Navy commendation cited. He now has one of the most important medical posts in the Nation. He has been decorated seven times by the Navy for his service.

Roger W. Rowland, New Castle, Pa., president of New Castle Refractories, has been serving on the Board of Trustees since 1939 and since January 26, 1963, has been president of the Board. He has contributed many hours of valuable service to the University through his Board activities and played an especially important role in establishing the financial base for the University's residence hall building program. He has been in his present industrial position since 1929, with exception of a two-year period as State Secretary of Property and Supplies. He was graduated in 1917 in electrical engineering and in 1948 was conferred the degree of Ceramic Engineer.

J. W. Woomer, consulting mining engineer, was graduated in 1925 and has been associated with the mining industry since his graduation. After working for four different mining companies, he founded a consulting firm at Wheeling, W. Va., in 1940 and in 1956 moved the firm to Pittsburgh. His consulting service has been used by many governments and private companies all over the world.

FACULTY AIDE

The Faculty Aide Scholarship program is again in effect and members of the faculty are reminded that applications for these scholarships must be received soon in the Office of Student Aide. Faculty members who wish to make application should obtain the necessary form from the office of the assistant dean for instruction of their respective colleges.

As noted in the Faculty Bulletin of March 20, the Aide program has helped many faculty members but it has also been an effective way of helping outstanding students through personal contact with research, teaching, or many of their components.

Last summer 81 men and women students had Faculty Aide Scholarships.

OGONTZ

The Ogontz Campus was host to the annual meeting of the College English Association of Pennsylvania April 25, with 42 English teachers present from 17 colleges and universities. Among the program participants was Brant Shoe-

maker, of Ogontz, in a panel discussion on Keats.

PATENT

Raymond J. Anderson, of the Ordnance Research Laboratory, is the inventor of an Azimuth Control System for Towed Submersible Bodies, for which Patent No. 3,125,980 has been granted.

NSF GRANT

Robert I. Lachman, instructor in drafting and design technology at New Kensington, has been awarded a National Science Foundation grant to attend the Summer Institute for College Teachers of Engineering and Science to be held at Stevens Institute of Technology June 24 to August 5.

FLC MEETING

Lawrence J. Perez, assistant dean of the College of Engineering, will speak on "Annexation: Yes or No," at the weekly Faculty Luncheon Club meeting at 12:30 p.m. Monday, May 11, in HUB dining room "A."

LIBERAL ARTS

The faculty meeting of the College of the Liberal Arts, originally scheduled for May 14, will be held instead Tuesday, May 12, at 3:55 p.m. in Room 121 Sparks.

PHILOSOPHY

Professor Gottfried Martin, of the University of Bonn, Germany, will speak on "Metaphysics," at the Philosophy Colloquium Wednesday, May 13, at 4 p.m. in Room 211 Boucke.

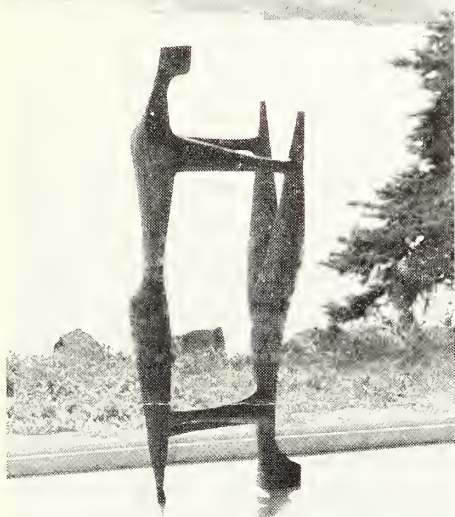
CONTRIBUTIONS

Contributions to the 1964 Alumni Fund totalled \$245,261.94 from 9,504 contributors as of May 4.

WINNER

A Penn State senior in chemical engineering, Edwin P. Bayha, won first prize of \$100 for the best paper presented at the 15th annual regional meeting of the student chapters, American Institute of Chemical Engineers. His paper was titled, "Pinhole Damage in Peroxide Bleaching of Cotton Cloth."

THE ARTS



Acrobats, a sculpture by William D. King, is one of the works of art from the Nelson Rockefeller Collection which will go on display Sunday at the HUB gallery. The exhibit will continue until May 30.

art exhibit

A selection of nine sculptured works and eight paintings from the private collection of Gov. Nelson A. Rockefeller will go on display at the HUB gallery Sunday and continue through May 30.

Represented in the works are English, Scottish, Swiss, French, Cuban, German, and American artists.

A reception marking the opening of the exhibit will be held Sunday from 7 to 9 p.m.

Gallery hours during the exhibit will be from 11 a.m. to 4 p.m. and 6 to 9 p.m. daily.

Television

The University's new educational television station on Channel 3 has been allocated the call letters, WPSX, suggesting the Penn State extension of the educational program possible with the new facility.

The station will reach directly into 22 Central Pennsylvania counties in which are located 707 schools and will also serve as a connecting link between stations in Pittsburgh and Philadelphia in the proposed Commonwealth Educational Television Network.

glee club concert

The Penn State Glee Club will present its annual Mother's Day Concert Sunday at 3 p.m. in Schwab Auditorium.

Frank Gullo will direct the Glee Club in a program which will include eight sacred songs by the 80-voice group; a selection of numbers by the Varsity Quartette; a solo, "Jerusalem Morning," by Gary Greene; two songs by the Hy-Los; a piano solo by accompanist John Berkheimer; and nine secular songs by the entire group.

symphony program

Theodore Karhan will conduct the University Symphony Orchestra in its annual Spring concert Saturday, May 16, at 8 p.m. in Schwab Auditorium.

The program will include the Johann Strauss, "Overture to Die Fledermaus"; Serge Prokofieff's "Lieutenant Kije"; Aaron Copland's "Quiet City," featuring Christine Burkholder, trumpet, and Ned Corman, oboe; and Robert Schumann's "Symphony No. 1 in B-flat."

artists series

Tickets for the Artists Series performance by the LaSalle string quartet Wednesday, May 13, will go on sale Monday at 9 a.m. at the HUB desk. The program will be given in Schwab Auditorium at 8:30 p.m.

art talk

Dr. Arnold Noach, visiting professor of the history of art, will speak on "The Pantheon and the Survival of Antiquity," Tuesday, May 12 at 8 p.m. in the HUB assembly room. The talk is sponsored by the College of Arts and Architecture. Dr. Noach is visiting from the University of Leeds, England, and is widely known for his studies of the architectural history of the Baroque.

Initiated

Samuel F. Hinkle, president and chairman of the Board of the Hershey Chocolate Corp. has been initiated as an honorary member of Alpha Kappa Psi, professional commerce fraternity.

A graduate of the University, Mr. Hinkle is a member of the Alumni Association's Alumni Council and of the Board of Trustees. He is a member of Alpha Chi Sigma, professional chemistry fraternity; Phi Kappa Phi, national scholastic honor society; and Phi Lambda Upsilon.

PERSONNEL MATTERS



Dr. Karl A. Gingerich, assistant professor of chemistry, will do research on solid state chemistry at the Technische Hochschule, in Karlsruhe, West Germany, while on leave this month.

Dr. Arthur H. Waynick, head of the department of electrical engineering and director of the Ionosphere Research Laboratory, will do research, mainly in Europe, while on leave next year from March 15 to Sept. 14.

Warren S. Smith, professor of theatre arts, has been granted a leave for the Summer and Fall Terms, 1965, to continue preparation of a book, "Heretics of London, 1870-1915" concerned with the religious rebels of that period. He has already published nine articles on the subject in "Christian Century."

Dr. J. Mitchell Morse, professor of English, will teach American literature at the University of Toulouse, France, under a Fulbright Scholarship while on leave from September, 1964, to August, 1965. He will also work on a book about the new French novelists, interviewing such writers as Alain Robbe-Grillet, Michel Butor, Nathalie Sarraute, Philippe Sollers, and Marguerite Duras.

Dr. Lowell Schoenfeld, professor of mathematics, will conduct research at the University of Wisconsin on the theory of numbers during a leave of absence from Sept. 15 to June 14, 1965.

Robert A. Bartkowiak, a Penn State graduate in electrical engineering and formerly space power development engineer for Radio Corporation of America, has been appointed instructor in general engineering at the Allentown Center.

Dr. William C. Wisely, for the past year a post-doctoral scholar in the administration of higher education at Columbia University, has been appointed to the staff of the President to engage in studies concerned with the growth and development of the University Library. He will work with Dr. Otis E. Lancaster, George Westinghouse professor of engineering education, who is chairman of the Senate Committee on the Library, and with Ralph W. McComb, Librarian, to formulate a study plan. Dr. Wisely received his doctor of philosophy degree in modern history from the School of Slavonic and East European Studies of the University of London.

CALENDAR



Friday, May 8

Pavilion Theatre production of "Thieves' Carnival." 8 p.m.

Biophysics Seminary, 3:55 p.m., Room 105 Walker. Dr. Noburn Sueoka, department of biology, Princeton University, on "Mechanisms of Chromosome Replication in *Bacillus Subtilis*."

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Saturday, May 9

Western Pennsylvania Philosophical Society meeting. Talk by Dr. John Smith, head of department of philosophy, Yale University, on "Intuitive and Discursive Elements in Self Knowledge," 10:30 a.m., Room 111 Boucke. Also, panel discussion on "Knowledge of the Self in Religion," 2 p.m., Room 111 Boucke.

Pavilion Theatre production of "Thieves' Carnival," 8 p.m.

Varsity athletics: baseball, vs. Syracuse, 1 p.m.; track, vs. Pittsburgh, 1 p.m.; football, Blue-White game, 2 p.m.; lacrosse, vs. Swarthmore, 3:30 p.m.

Civil Rights Bill demonstration sponsored by SURE, State College Chapter of N.A.A.C.P., and Friends Peace Committee, 1:30 p.m. on campus and in State College.

Sunday, May 10

Chapel Service, 10:55 a.m., Schwab Auditorium. William Muehl, professor of practical theology, Yale Divinity School, on "God's Lost Dimensions."

Spring Concert by the Penn State Glee Club, 3 p.m., Schwab.

Tri-Service Drill Competition, 2 p.m., Beaver Stadium.

Hillel Graduate Association lecture, 8 p.m., Hillel Foundation, by Joseph F. Faulkner, sociology, on "College Students' Conception of Religiosity."

West Halls Cultural and Religious Affairs Committee film showing, 7 and 9 p.m.,

Room 121 Sparks, Ingmar Bergman film, "The Virgin Spring."

Monday, May 11

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Lawrence J. Perez, on "Annexation: Yes or No."

Psychology Lecture, 8 p.m., Room 112 Chambers. Dr. Arthur W. Melton, University of Michigan, on "Interference Factors in Human Short-term Memory."

Emerson Society Colloquy on "Perspectives on Religion," 8 p.m., HUB Auditorium. Dr. Henry Finch, philosophy department, and Dr. Harold K. Schilling, Graduate School.

Tuesday, May 12

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering, Carter L. Ackerman, Ordnance Research Laboratory, on "Advance Signal Processing Techniques."

Phi Delta Kappa meeting, 5:15 p.m., HUB dining room "A." Speaker: Charles D. Alfieri, principal and curriculum coordinator, Northampton Twp. School District, on "A Peripatetic Phi Delta Kappan Behind the Iron Curtain," illustrated with slides.

Lecture by Dr. Lillian Gilbreth, management consultant, on "Management and Education," 4 p.m., Schwab Auditorium.

Varsity athletics; tennis, vs. Lehigh, 3:30 p.m.

College of Liberal Arts faculty meeting, 3:55 p.m., Room 121 Sparks.

Lecture by Dr. Arnold Noach, visiting professor of the history of art, 8 p.m., HUB assembly room, "The Pantheon and the Survival of Antiquity."

Accounting Faculty Seminar, 9:35 a.m., Room 311 Boucke. Dr. W. W. Cooper, professor of economics and industrial administration, Carnegie Tech, on "Current Scientific Research and Its Impact on Future Accounting and Management Practices."

Wednesday, May 13

Philosophy Colloquium, 4 p.m., Room 211 Boucke. Dr. Gottfried Martin, University of Bonn, Germany, on "Metaphysics."

Artists Series program by LaSalle Quartet, 8:30 p.m., Schwab.

Talk by Chico Neblett, field secretary, Student Non-Violent Coordinating Commit-

tee, Atlanta, Ga., 8 p.m., Wesley Foundation, sponsored by U.C.A., State College Committee on Human Rights, SURE, and the local chapter of the N.A.A.C.P.

Thursday, May 14

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Jerrold Meinwald, Cornell University, on "Defensive Secretions of Arthropods."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. William Bunge, Wayne University, on "Problems of Regional Analysis."

Physics Colloquium, 4 p.m., Room 117 Osmond. Dr. F. Garcia-Moliner, University of Illinois, on "Non-ohmic Semiconductor Transport in Magnetic Fields."

Friday, May 15

Conference of Teachers of Mathematics of Commonwealth Campuses. Talk by Dr. Hans Zassenhaus, Ohio State University, 8 p.m., Room 214 Boucke, on "Primitive Roots."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Bruce Hanshaw, U. S. Geological Survey, on "Membrane Properties of Earth Materials Which Affect Ground Water."

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

Gilbreth talk

Dr. Lillian Gilbreth, distinguished management consultant who spoke on campus April 28 to an overflow crowd, will speak again Tuesday, May 12, at 4 p.m. Her talk will be given in Schwab Auditorium instead of Mineral Industries Auditorium as previously announced because of the interest in her visit.

The title of her talk Tuesday will be "Management and Education." Dr. Gilbreth has carried on management consultant work since her husband's death and is known world-wide for her work.

faculty BULLETIN

Vol. 51, No. 41 May 8, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLEGE
PATTEE LIBRARY

32

faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

BOOKS



The University Press will publish May 22 a book by **Dr. Edward R. Fagan**, associate professor of education, on "Field: A Process for Teaching Literature."

Dr. Fagan introduces to English teachers the key concept of the Maxwell field theory which is shaping English teaching and scholarship, surveying the evolution of field theory in the physical and social sciences, demonstrating its applications in the teaching of English, developing a field theory structure and method for analyzing a novel, and discussing the implications of field theory for preparatory programs for English teachers.

A member of the faculty of the College of Education since 1962, Dr. Fagan holds the doctor of education degree from Columbia University Teachers College.

* * *

Dr. John L. Lumley, professor of aeronautical engineering, and **Dr. Hans A. Panofsky**, professor of meteorology, are authors of "The Structure of Atmospheric Turbulence," published by Interscience Publishers, Division of John Wiley and Sons, Inc., as volume 12 in the Interscience Monographs and Texts in Physics and Astronomy, edited by Dr. R. E. Marshak, University of Rochester.

The book is in two sections, the first of which deals with a statistical
(Continued on page three)

Mackworth talk

Dr. Norman Humphrey Mackworth, Harvard School of Public Health, will give the annual American Psychological Association's Walter Van Dyke Bingham Memorial Lecture Wednesday, May 27, at 8 p.m. in Room 121 Sparks.

The Bingham Lecture is given yearly to honor the memory of the pioneer in industrial psychology. Lectures have been held in the past few years at Yale, Michigan, and at Carnegie Tech.

Dr. Mackworth, from Great Britain, is currently senior research associate at the Harvard School of Public Health in the Guggenheim Center for Aerospace Health and Safety and is also research fellow at the Harvard Center for Cognitive Studies. His research has been concerned with human performance under adverse conditions, human factors affecting sustained visual and auditory vigilance, effects of demanded speed on decision-making performance, and the development of eye movement recording cameras for the analysis of visual search and cognitive behavior.

ACLS award

Dr. Alan Trachtenberg, assistant professor of English, has won a grant-in-aid award from the American Council of Learned Societies in national competition.

Recipients of the grants, 52 in all, are associated with 37 institutions of higher learning and two non-academic organizations in 17 states and Canada.

The grants are awarded for post-doctoral research in the humanities and related social sciences and Dr. Trachtenberg's study will be concerned with the Brooklyn Bridge, including a proposal for construction of the bridge, its architectural significance, and its treatment as a symbol in painting and literature. He is writing a book on the facts and symbols associated with the Bridge.

Industrial arts

A display of industrial arts projects of junior and senior high school students in the Central Pennsylvania area will be held at the HUB Thursday through Saturday of next week.

Sponsored by the Central Pennsylvania Industrial Arts and Vocational Association, the Industrial Education Society, and the department of vocational education, the display will include 75 individual projects in wood, metal, electricity, crafts, drafting, and graphic arts made by public school students in a six-county area.

Frizzell contest

The annual John Henry Frizzell Extempore Speaking Contest began this week with preliminary meetings Monday and Thursday and will continue with the final phase Thursday, May 21, at 7 p.m. in Room 10 Sparks. Clayton H. Schug, professor of speech, is chairman of the contest.

Finalists will give 8-10 minute speeches without notes on topics previously selected, competing for the first prize of The Forensic Council award of \$75 and the John Henry Frizzell award of merit in extempore speaking. Second and third prizes will be \$50 and \$25 respectively.

Probably the oldest speaking contest of its kind in this country, the Contest has been conducted for more than 75 years and has acquired its present name since the retirement in 1916 of John Henry Frizzell, who was the first head of the Department of Speech and was a member of the faculty for 45 years.

Planning

Community planning will be the subject for a talk to be presented at 8 p.m. on Wednesday, May 20, in Room 10, Sparks Bldg., by Nathan K. Mendelsohn, president of the California City Development Co.

He is the guiding force behind a revolutionary attempt to combine sound sociological principles with the realities of the business world in the building of a completely planned community.

Mendelsohn's current project is in the Northern Antelope Valley of California, 100 miles north of Los Angeles, and is the culmination of an ambition that stems from his five years as an instructor in sociology at Columbia University before he entered the community planning field.

His California City project was started in 1958 and all building and development is in accordance with the plan developed before any development was started.

His talk, open to the public, is sponsored by the department of architecture.

Palladino honor

Nunzio J. Palladino, professor and head of the department of nuclear engineering, will be given the honorary doctor of engineering degree by Lehigh University at commencement exercises June 8 in recognition of nuclear engineering work.

A Lehigh graduate, Palladino also obtained his master of science degree there, in 1939. He has been a member of the Penn State faculty since 1959.

SENATE MINUTES



Meeting of May 5, 1964

The University Senate met at 3:55 p.m. on Tuesday, May 5, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 7, 1964 meeting were approved as printed in the Faculty Bulletins for March 13 and 20, 1964. One hundred eighty-five senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Rose Cologne (Charlotte Churaman); M. R. Fenske (Dorothy Quiggle); Coleman Hespel (John Pixton); B. B. Lethbridge, Jr. (F. A. Babione); R. W. Lindsay (W. R. Bitler); Ossian MacKenzie (W. M. Hensch); Lucille Magnusson (Alice Braunwarth); R. E. McCord (V. E. Neilly); R. C. Miller (G. W. Sherritt); N. J. Palladino (A. H. Foderaro); W. H. Powers (J. S. Cook); H. J. Read (G. W. Healy); A. H. Reece (J. S. Prybyla); A. W. Schmidt (W. W. Ward); Edna Sommerfeld (Eleanor Eccleston); C. W. Stoddart, Jr. (G. A. Stull); Carl Volz (W. D. O'Connell); H. A. Weeden (T. D. Larson); H. B. White, Jr. (C. A. Morehouse); B. A. Whisler (C. J. Smith); D. J. Willower (E. R. Fagan); W. P. Winter (J. W. Siphon); G. F. Wislicenus (J. W. Holl); and L. N. Zimmerman (P. H. Cutler). A letter was also received from Ossian MacKenzie stating that Judith Stoye would attend the May meeting in place of R. M. Colwell deceased.

Letters from the deans of the various Colleges and the Graduate School naming the newly elected senators for 1964-1967 were read by the secretary as follows:

AGRICULTURE—C. W. Hitz, P. G. Keeney, G. M. Love, R. E. Swope, J. K. Pasto will replace R. B. Dickerson to March 31, 1965.

ARTS AND ARCHITECTURE—H. E. Dickson, R. L. Grube, E. L. Miller, B. R. Shobaken, E. W. Gamble, Jr., will replace G. S. Zonetich Spring and Summer Terms, 1964.

BUSINESS ADMINISTRATION—J. F. Bradley, R. D. Pashek, R. B. Saylor, J. J. Willingham.

EDUCATION—C. G. Corle, E. E. Edgar, G. J. Free, R. G. Jones.

ENGINEERING—W. H. Gotolski, P. B. Lovett, J. L. Lunley, W. P. Winter.

HEALTH AND PHYSICAL EDUCATION—Herberta M. Lundgren, G. A. Stull, D. J. Watkins, H. B. White.

HUMAN ECONOMICS—C. B. Broderick, Vladimir deLissovoy, Stella Goldberg, W. J. McHale.

LIBERAL ARTS—H. S. Albinski, J. S. Prybyla, E. G. Thaden, Philip Young.

MINERAL INDUSTRIES—L. T. Bissey, B. F. Howell, Jr., H. J. Read, H. D. Wright.

SCIENCE—Adam Anthony, N. C. Deno, E. H. Ludwig, W. W. Pratt.

GRADUATE SCHOOL—C. T. Davis, P. S. Klein, Rosemary Schraer, J. E. Wright.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the **SENATE COMMITTEE ON COURSES OF STUDY**, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of Items IA and IB. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Mr. Shelley moved that the Senate receive the report on **TERMINOLOGY APPLICABLE TO FORMALIZED PROGRAMS OF STUDY** which had been distributed with the agenda as Appendix "B" for action at the June meeting. The motion was seconded and passed. The complete report is as follows:

INFORMATIONAL REPORT ON TERMINOLOGY APPLICABLE TO FORMALIZED PROGRAMS OF STUDY

Traditionally at this University four designations have been used to identify programs of study in full or in part: curriculum, major, minor, and option. In the application of the first two of these designations in particular there has been a great deal of variation, irregularity, and inconsistency. A comparison of programs of study in the several Colleges reveals, for instance, that all of the comprehensive programs offered by at least two of the Colleges are labelled curriculums, whereas all offered by two other Colleges, and nearly all by one of the Colleges, are labelled majors.

Such irregularities and inconsistencies became particularly apparent with the changes attendant upon the recent structural reorganization of the University. Examples might be multiplied; a few should suffice. While such programs of study as those in bacteriology, biochemistry, botany, and zoology, for instance, were majors while in the College of Agriculture, they became curriculums upon being transferred from the College of Agriculture to the College of Science; those programs which were retained by the College of Agriculture remained majors.

The irregularities could be resolved by designating all comprehensive programs of study either curriculums or majors. After study and discussion the Courses of Study Committee recommends to the Senate the second alternative.

It recommends to the Senate that:

The curriculum in each of the Colleges consists of the sum total of courses and programs of study offered by that College. The majors are programs of study which may include subdivisions called options.

President Walker suggested that each College look at the catalog and see how its offerings would appear under the new terminology and communicate to Mr. Shelley any questions or recommendations before the next meeting of the Senate.

J. J. Schanz, Chairman of the **SENATE COMMITTEE ON EDUCATIONAL POLICY**, presented the report on **AN ANALYSIS OF THE TERM SYSTEM** which had been distributed at the meeting. He moved that the Senate receive this report for action at a future meeting. The motion was seconded

and passed. Mr. Schanz asked that comments and recommendations be forwarded to him before the next meeting, at which time he will move adoption of the six recommendations as follows:

1. *That the faculty continue its efforts to adjust its teaching methods to the Term System. Full use of class periods and adequate testing are essential for the proper functioning of the Term System.*

2. *That experimentation in teaching methods be increased. Faculty members are urged to utilize various University services, such as the University Division of Instructional Services, that are available for assistance or advice when needed. University policy both approves and encourages such experimentation. Variations from standard patterns of lectures, recitations, and laboratories can be approved for regular use after experimentation has shown their usefulness.*

3. *That the term be increased to a full 11 weeks. As a matter of educational policy, it is considered desirable that the eleventh week be used for scheduling final examinations for all courses. All classes should hold final examinations as scheduled unless approval of the department head and the dean of that College has been obtained for not having an examination. It is recommended strongly that consideration be given to having 2-hour final examinations. The Calendar Committee shall be consulted on the above matters when changes in existing Senate policy are necessary.*

4. *That the University undertake a study to determine what is the optimum length of class period for effective teaching and learning.*

5. *That the number of usable day time classes be increased to 6 from the present 5. This could be accomplished by bringing the single lunch period back into the daily schedule, utilizing the time gained by reducing the class break from 20 to 15 minutes.*

6. *That every possible effort be made to reduce faculty time expended on the mechanics of scheduling and registration and that faculty time available for student advising be increased.*

The complete report is on file in the office of the secretary.

A. R. Gray, Chairman of the **SENATE COMMITTEE ON STUDENT AFFAIRS**, presented a statement regarding changes in the By-Laws as follows:

The Senate Committee on Student Affairs recommends that Article II, Section 1 (o) 3. A. of the By-Laws dealing with the composition of the Subcommittee on Discipline be changed to read:

A. *Voting Members, the Dean of Men or the Dean of Women, or both, depending upon the sex of the student or students whose case is under consideration; an elected member of the Senate who is a member of the Committee on Student Affairs; a representative of the College Deans to serve as a permanent member for a year, and the President of USG or AWS, or both, depending upon the sex of the student or students whose case is under consideration. The chairman is to be either the elected member of the Senate or the representative of the College Deans.*

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
ENGINEERING																		
AerSp					5	60	7	9	67	10	8	63				227	2	229
AgE				1		13	2	1	8	3		8				36		36
AE		2	24	2	1	12	1		6	1	3	5		1	4	62		62
ChE					1	51	5	1	47	12	6	53				173	3	176
CE				2	5	32	10	7	15	36	8	13	53			181		181
EE				12	8	105	30	17	142	39	29	164				543	3	546
Engr	11	19	527	28	3	3	3									589	5	594
ENich					1	9	2	3	9		2	17				43		43
FSc				1		17		3	10	1		15				46	1	47
IE				5	3	28	4	7	32	7	12	54				151	1	152
ME				2												2		2
SE							1			1	1		6			9		9
Total	11	21	551	53	27	330	65	48	336	110	69	392	59	1	4	2062	15	2077
HEALTH & PHYSICAL EDUCATION																		
PhEd	2	1	38	3	6	31	13	8	45	8	6	56				119	98	217
RcEd					1	4	2	2	11	2	1	17				32	8	40
Total	2	1	38	3	7	35	15	10	56	10	7	73				151	106	257
HOME ECONOMICS																		
Total	5	7	114	19	19	161	50	40	182	64	24	205				350	540	890
LIBERAL ARTS																		
AL				54	50	448	132	90	519	107	95	275				752	1018	1770
DDP						7	2									9		
Journ				3	6	41	10	14	74	10	14	48				134	86	220
LMR				1		5	3	5	21	2	1	10				46	2	48
LA	33	54	770	38	4	3	2		1		1					406	500	906
Psy				10	12	41	23	18	88	21	23	79				198	117	315
Total	33	54	770	106	72	545	172	127	703	140	134	412				1545	1723	3268
MINERAL INDUSTRIES																		
Cert						8			11	2	1	18				40		40
FT						5			13			7				25		25
Geog									5	1		5				11		11
GSc				1		12			15	2	3	18				50	1	51
Metal					1	4	2	1	14	3	1	21				47		47
Meteo				2	4	13	4	8	21	8	3	34				94	3	97
MnEc					1	4	1	4	4	2	1	4				21		21
MnI	3	6	62	1												67	5	72
MPE						2						2				4		4
MngE				3	1	1	1	3	3	1		3				16		16
PngE					1	2	1	1	3	2	4	2				16		16
Total	3	6	62	7	8	51	9	17	89	21	13	114				391	9	400
SCIENCE																		
BioCh				1	1	14		3	13	3	2	7				30	14	44
Bot						7	2	5	9			2				22	3	25
Chem				2	1	23	9	7	36	7	2	18				89	16	105
Math				3	7	47	10	11	89	20	14	54				159	96	255
MedT				2	3	28	3	3	13	1	4	9				5	61	66
MicrB					1	13	2	1	11	2	3	8				16	25	41
Phys				2	3	26	16	6	35	12	6	24				123	7	130
PM				18	5	37	7	7	48	11	9	39				152	29	181
PMM				4		1										4	1	5
Sc	6	13	303	35	5	8	4	2	29	7	6	19				336	101	437
Zool				2	3	22	7	8	30	6	12	39				104	25	129
Total	6	13	303	69	29	226	60	53	313	69	58	219				1040	378	1418
DIVISION OF COUNSELING																		
Total	6	12	245	46	37	177	27	14	49	4	5	1				520	103	623
Total Bachelor's	110	151	3095	451	321	2512	642	564	2805	767	618	2587	61	3	36	9606	5117	14723
ASSOCIATE																		
2 yr Ag	1	5			3	7										16		16
2 HFS			32	3	1	15										48	3	51
Total Associate	1	5	32	3	4	22										64	3	67
Total Undergrad.	111	156	3127	454	325	2534	642	564	2805	767	618	2587	61	3	36	9670	5120	14790

Distribution by Sex

University Park	M	W	T
Two-year	64	3	67
Four-year	9606	5117	14723
Special	162	125	287
Graduate	1976	450	2426
Other campuses			
Two-year	1449	17	1466
Four-year	1381	483	1864
Special	90	65	155
Graduate	71	2	73
Totals	14799	6262	21061

Non-resident Summary

	Credit	Non-Credit
Correspondence		
Undergraduate	828	
Other		3947
Special	2688	
Graduate	175	
In absentia	88	
Formal Cont. Ed.		884
Informal Cont. Ed.		5829
Total	3779	10660
	14439	

Graduate Students

	Resident	Off Campus
Agriculture	196	5
Arts and Arch.	39	
Business Adm.	80	2
Education	339	58
Engineering	317	
Health & P. E.	43	1
Home Econ.	75	
Liberal Arts	435	11
Mineral Ind.	267	6
Science	529	5
General	51	
Inter-College	55	
Total	2426	88

SENATE MINUTES



Meeting of May 5, 1964

The University Senate met at 3:55 p.m. on Tuesday, May 5, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the April 7, 1964 meeting were approved as printed in the Faculty Bulletins for March 13 and 20, 1964. One hundred eighty-five senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Rose Cologne (Charlotte Churaman); M. R. Fenske (Dorothy Quiggle); Coleman Herpel (John Pixton); B. B. Lethbridge, Jr. (F. A. Babione); R. W. Lindsay (W. R. Bitler); Ossian MacKenzie (W. M. Hensch); Lucille Magnusson (Alice Braunwarth); R. E. McCord (V. E. Neilly); R. C. Miller (G. W. Sherritt); N. J. Palladino (A. H. Foderaro); W. H. Powers (J. S. Cook); H. J. Read (G. W. Healy); A. H. Reede (J. S. Prybyla); A. W. Schmidt (W. W. Ward); Edna Sommerfeld (Eleanor Eccleston); C. W. Stoddart, Jr. (G. A. Stull); Carl Volz (W. D. O'Connell); H. A. Weeden (T. D. Larson); H. B. White, Jr. (C. A. Morehouse); B. A. Whisler (C. J. Smith); D. J. Willower (E. R. Fagan); W. P. Winter (J. W. Siphron); G. F. Wislicenus (J. W. Holl); and L. N. Zimmerman (P. H. Cutler). A letter was also received from Ossian MacKenzie stating that Judith Stoye would attend the May meeting in place of R. M. Colwell deceased.

Letters from the deans of the various Colleges and the Graduate School naming the newly elected senators for 1964-1967 were read by the secretary as follows:

AGRICULTURE—C. W. Hitz, P. G. Keeney, G. M. Love, R. E. Swope, J. K. Pasto will replace R. B. Dickerson to March 31, 1965.

ARTS AND ARCHITECTURE—H. E. Dickson, R. L. Grube, E. L. Miller, B. R. Shobaken, E. W. Gamble, Jr., will replace G. S. Zoretich Spring and Summer Terms, 1964.

BUSINESS ADMINISTRATION—J. F. Bradley, R. D. Paslick, R. B. Saylor, J. J. Willingham.

EDUCATION—G. G. Corle, E. E. Edgar, G. J. Free, R. G. Jones.

ENGINEERING—W. H. Gotolski, P. B. Lovett, J. L. Lumley, W. P. Winter.

HEALTH AND PHYSICAL EDUCATION—Herberta M. Lundegren, G. A. Stull, D. J. Watkins, H. B. White.

HOME ECONOMICS—C. B. Broderick, Vladimir deLassovoy, Stella Goldberg, W. J. McHale.

LIBERAL ARTS—H. S. Albinski, J. S. Prybyla, E. C. Thaden, Philip Young.

MINERAL INDUSTRIES—L. T. Bissey, B. F. Howell, Jr., H. J. Read, H. D. Wright.

SCIENCE—Adam Anthony, N. C. Deno, E. H. Ludwig, W. W. Pratt.

GRADUATE SCHOOL—C. T. Davis, P. S. Klein, Rosemary Schraer, J. E. Wright.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of Items 1A and 1B. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Mr. Shelley moved that the Senate receive the report on TERMINOLOGY APPLICABLE TO FORMALIZED PROGRAMS OF STUDY which had been distributed with the agenda as Appendix "B" for action at the June meeting. The motion was seconded and passed. The complete report is as follows:

INFORMATIONAL REPORT ON TERMINOLOGY APPLICABLE TO FORMALIZED PROGRAMS OF STUDY

Traditionally at this University four designations have been used to identify programs of study in full or in part: curriculum, major, minor, and option. In the application of the first two of these designations in particular there has been a great deal of variation, irregularity, and inconsistency. A comparison of programs of study in the several Colleges reveals, for instance, that all of the comprehensive programs offered by at least two of the Colleges are labelled curriculums, whereas all offered by two other Colleges, and nearly all by one of the Colleges, are labelled majors.

Such irregularities and inconsistencies became particularly apparent with the changes attendant upon the recent structural reorganization of the University. Examples might be multiplied; a few should suffice. While such programs of study as those in bacteriology, biochemistry, botany, and zoology, for instance, were majors while in the College of Agriculture, they became curriculums upon being transferred from the College of Agriculture to the College of Science; those programs which were retained by the College of Agriculture remained majors.

The irregularities could be resolved by designating all comprehensive programs of study either curriculums or majors. After study and discussion the Courses of Study Committee recommends to the Senate the second alternative.

It recommends to the Senate that:

The curriculum in each of the Colleges consists of the sum total of courses and programs of study offered by that College. The majors are programs of study which may include subdivisions called options.

President Walker suggested that each College look at the catalog and see how its offerings would appear under the new terminology and communicate to Mr. Shelley any questions or recommendations before the next meeting of the Senate.

J. J. Schanz, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report on AN ANALYSIS OF THE TERM SYSTEM which had been distributed at the meeting. He moved that the Senate receive this report for action at a future meeting. The motion was seconded

and passed. Mr. Schanz asked that comments and recommendations be forwarded to him before the next meeting, at which time he will move adoption of the six recommendations as follows:

1. *That the faculty continue its efforts to adjust its teaching methods to the Term System. Full use of class periods and adequate testing are essential for the proper functioning of the Term System.*

2. *That experimentation in teaching methods be increased. Faculty members are urged to utilize various University services, such as the University Division of Instructional Services, that are available for assistance or advice when needed. University policy both approves and encourages such experimentation. Variations from standard patterns of lectures, recitations, and laboratories can be approved for regular use after experimentation has shown their usefulness.*

3. *That the term be increased to a full 11 weeks. As a matter of educational policy, it is considered desirable that the eleventh week be used for scheduling final examinations for all courses. All classes should hold final examinations as scheduled unless approval of the department head and the dean of that College has been obtained for not having an examination. It is recommended strongly that consideration be given to having 2-hour final examinations. The Calendar Committee shall be consulted on the above matters when changes in existing Senate policy are necessary.*

4. *That the University undertake a study to determine what is the optimum length of class period for effective teaching and learning.*

5. *That the number of usable day time classes be increased to 6 from the present 5. This could be accomplished by bringing the single lunch period back into the daily schedule, utilizing the time gained by reducing the class break from 20 to 15 minutes.*

6. *That every possible effort be made to reduce faculty time expended on the mechanics of scheduling and registration and that faculty time available for student advising be increased.*

The complete report is on file in the office of the secretary.

A. R. Gray, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented a statement regarding changes in the By-Laws as follows:

The Senate Committee on Student Affairs recommends that Article II, Section 1 (o) 3. A. of the By-Laws dealing with the composition of the Subcommittee on Discipline be changed to read:

A. Foting Members, the Dean of Men or the Dean of Women, or both, depending upon the sex of the student or students whose case is under consideration; an elected member of the Senate who is a member of the Committee on Student Affairs; a representative of the College Deans to serve as a permanent member for a year, and the President of USG or AIFS, or both, depending upon the sex of the student or students whose case is under consideration. The chairman is to be either the elected member of the Senate or the representative of the College Deans.

B. Advisory, Nonvoting Members. To be deleted.

Article II, Section 2 (o) dealing with the duties of the Subcommittee on Discipline. Add the following at the end of paragraph two:

It shall be the duty of the Subcommittee on Discipline to act as an appeal body for cases which are appealed by a student or his Academic Dean from a decision of the Office of the Dean of Men or Dean of Women.

Mr. Gray moved that the Senate receive these recommendations to lie on the table until the June meeting. The motion was seconded and passed.

UNFINISHED BUSINESS

Mr. Schanz presented the report which had been distributed with the agenda as Appendix "C" regarding the BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES AT THE PENNSYLVANIA STATE UNIVERSITY, and which had been printed on pages 1208 and 1209 of the official minutes for the meeting of April 7, 1964. He commented on the recommendations as set forth in Items I and II, and moved to adoption of the policies as presented. The motion was seconded. Discussion by Messrs. Schilling, Walker, Eiwema, Murray, McKinley, and Schanz followed. Mr. Schilling moved that Item II, 3 be amended by changing the words "an imperative need for" to "the desirability for." The motion was seconded and passed. The motion, as amended, was lost by a showing of hands.

During the discussion President Walker requested the Senate Committee on Educational Policy to study the need for a policy statement concerning degree programs which are proposed by interdisciplinary research laboratories which are not affiliated with a teaching department.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

Chairmen of the Committees are reminded that annual reports IN DUPLICATE will be due at the June 2 meeting.

The next regular meeting of the Senate will be on June 2, 1964; the agenda will be distributed on May 19, 1964. The meeting adjourned at 4:35 p.m.

Robert G. Bernreuter
Secretary

RECEPTION

The Pattee Library staff has planned a reception for Mildred A. Ailman, reference librarian since 1941, who will retire June 1. The reception will be held in the first-floor lounge of the Nittany Lion Inn Wednesday, May 20, from 3 to 5 p.m. and all of Miss Ailman's friends are invited.

EVAN PUGH

Evan Pugh Scholars were honored at a luncheon May 10 and presented with medals by President Walker. Forty-three juniors, seniors, and recent graduates were recognized for scholarship, the students being chosen from the top one-half percent of their respective classes. They had averages ranging from 3.78 to 4.00.

BOOKS —

(Continued from page one)

description of turbulence and the mechanics of turbulence; the second deals with the profiles of temperature and wind close to the ground, the magnitude of turbulent fluctuations, and the spectra and scales of atmospheric turbulence.

Dr. John A. Mourant and Dr. E. Hans Freund, professors of philosophy, are editors of "Problems of Philosophy," a book of readings published by MacMillan Co. of New York.

The book includes 42 selections from Plato to the present, arranged in historical sequence for each of the seven major branches of philosophy: Ethics, Epistemology, Metaphysics, Philosophy of Religion, Social and Political Philosophy, Philosophy of Art, and Philosophy of Science. Each selection is preceded by a biographical sketch and introductory note, and includes the Platonic dialogue, the "Meno."

Dr. John M. Warren, associate professor of psychology, is co-editor, with Dr. K. Akert, of the Institute fuer

Hirnforschung der Universitaet, in Zurich, Switzerland, of "The Frontal Granular Cortex and Behavior," published by McGraw-Hill. Included in the book are the papers presented at a symposium on this subject held at Penn State Aug. 8-10, 1962, which attracted some of the outstanding world scientists in the various fields connected with the study of the frontal cortex.

Dr. Warren's own paper on "The Behavior of Carnivores and Primates with Lesions in the Prefrontal Cortex," is included. In all, there are 20 papers plus selections from the group discussions that followed the papers.

* * *

Edward J. Mock, instructor in finance, is author of "Short Problems in Business Finance and Financial Management," published by International Textbook Co. The booklet is designed as a textbook supplement for undergraduate courses in business finance and financial management, containing a hundred concise analytical problems providing coverage of the principles, techniques, and theories of financial management.

Mercer honor

Dr. Margaret Mercer, clinical psychologist of Washington, D. C., will be honored June 20 as Penn State Woman of the Year. The honor will be bestowed at the annual Alumni Reunion program.

Now director of clinical psychology training at St. Elizabeth's Hospital, Washington, D. C., Dr. Mercer also teaches a graduate seminar on research in personality assessment at George Washington University.

A 1929 graduate, Dr. Mercer taught mathematics at Renovo and studied here during Summer Sessions, completing her master's degree. She worked at the Child's Guidance Center in Pittsburgh from 1935 to 1938 while working for her doctor of philosophy degree, granted in 1938. After a year at Mansfield State College and five years at Cornell University, she interned at Rockland State Hospital in New York, during the next four years gaining clinical experience while working with delinquent adolescents, normal public school children, and hospital community clinics. In the post-World War II period she did similar work with the Veterans Administration, then entered her present work.

Five distinguished alumni will be honored at the same ceremony June 20.

REGISTRAR REPORTS ON ENROLLMENT FOR SPRING TERM, 1964

Summary of Total Enrollment

BY CREDIT

Resident	21061
Non-Resident	3779
Total Credit	24840
Resident non-credit	8606
Non-resident, non-credit	10660
Total	19266
Grand Total	44106

BY PROGRAM

Undergraduate	18120
Graduate	2762
Special	3130
Short Course	3219
Formal continuing	3503
Informal continuing	8597
Correspondence	4775
Grand Total	44106

BY LOCATION

Allentown	927
Altoona	478
Behrend	535
DuBois	206
Hazleton	225
King of Prussia	88
McKeesport	797
Mont Alto	164
New Kensington	374
Ogontz	1695
Schuylkill	200
Scranton	240
University Park	22395
Wilkes-Barre	375
Wyomissing	653
York	315
Other (Non-Resident)	14439
Grand Total	44106

Credit Summary

Resident	Undergraduate		Special	Graduate	Total
	2-Yr.	4-Yr.			
<i>University Park</i>					
Full time	67	14562	23	727	15379
Part time		161	264	1699	2124
<i>Other campuses</i>					
Full time	1383	1828	15		3226
Part time	83	36	140	73	332
Total	1533	16557	442	2499	21061

Residency Summary

	Undergraduate		Special	Graduate	Total	Non Credit	Grand Total
	2-Yr.	4-Yr.					
Allentown	88		3		91	836	927
Altoona	157	186	33		376	102	478
Behrend	106	191	5		302	233	535
DuBois	77	72	36	4	189	17	206
Hazleton	84	128	1		213	12	225
King of Prussia			19	69	88		88
McKeesport	155	208	6		369	428	797
Mont Alto	43	62			105	59	164
New Kensington	86	1	29		116	258	374
Ogontz	96	881	11		988	707	1695
Schuylkill	38	135	12		185	15	200
Scranton	104				104	136	240
University Park	67	14723	287	2426	17503	4892	22395
Wilkes-Barre	156				156	219	375
Wyomissing	161				161	492	653
York	115				115	200	315
Total	1533	16557	442	2499	21061	8606	29667

University Park Enrollment By Curriculum, College, Term

Term	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	M	W	Total
AGRICULTURE																		
AG	4	6	137	7	6	1										146	15	161
AG SI				9	5	104	18	14	104	20	21	106				378	23	401
For				1	2	51	6	4	6	52	7	63				192		192
Total	4	6	137	17	13	156	24	18	110	72	28	169				716	38	754
ARTS AND ARCHITECTURE																		
A & A		5	4	45	5											28	31	59
A Art				2	3	28	5	8	23	6	2	25				34	69	103
Arch	1	2	69	4	1	36	3	4	38	5	5	33	1	2	32	227	9	236
Arts				2	3	13	5	5	26	6	6	15				21	60	71
LArch				1	1	21	1	1	20	2			1			28	4	33
Total	6	6	114	14	8	99	14	18	107	19	14	96	2	2	32	378	173	551
BUSINESS ADMINISTRATION																		
Total	8	8	342	30	40	357	76	88	354	100	112	352				1794	73	1567
EDUCATION																		
AEd				2	10	20	14	15	37	13	10	38				27	132	159
Ed	26	22	414	24		2										71	418	489
EkEd				37	19	155	66	39	179	62	57	218				24	808	832
IArt				1	4	3	2	5	10	3	4	9				41		41
MuEd				1	4	3	5	3	13	4	3	17				27	26	53
RelEd				3	3	18	3	3	16	13	11	26				30	66	96
SecEd				17	20	160	35	64	244	61	67	239				434	473	907
SPA				2	2	14	4	2	6	2	1	7				2	36	38
ViEd					1											3	8	8
Total	26	22	414	87	61	375	130	131	506	158	154	554				659	1959	2618

CALENDAR



Friday, May 15

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. William Bunge, Wayne University, on "Mathematical Regionalization."

Conference of Commonwealth Campuses Mathematics Teachers. Talk at 8 p.m., Room 214 Boucke, by Dr. Hans J. Zassenhaus, Ohio State University, on "Primitive Roots."

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. V. G. Krishna, Florida State University, on "Delayed Fluorescence and Its Applications."

Saturday, May 16

Varsity athletics: baseball, vs. Maryland, 1 p.m.; golf, vs. Lehigh, 1 p.m.; track, vs. Syracuse, 2 p.m.

University Symphony Orchestra Concert, 8 p.m., Schwab Auditorium.

Saturday lecture by Dr. Theodore Gill, president of San Francisco Theological Seminary, on "New Accents in the Life of the Local Church," 8 p.m., The Chapel Memorial Lounge.

Sunday, May 17

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, president, San Francisco Theological Seminary, on "A Biblical Non-Sequitur."

Monday, May 18

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A." Dr. Charles L. Hosler, on "Weather or Not."

State College Color Slide Club meeting, 7:30 p.m., Room 101 Chambers. C. O. Dossin on "Photographic Techniques." Judging of annual competition by Harold Altman.

Colloquy on "Perspectives of Religion," sponsored by the Emerson Society, 8 p.m., HUB auditorium. Dr. J. Mitchell Morse and Paul Edmonston.

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium. Dr. Gordon Lewis, University of Kansas, on "Vaporization Study of BPO₄."

Tuesday, May 19

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Dr. L. E. Flory, R.C.A. Research Laboratories, on "The Expanding Role of Electronics in Medicine."

Varsity tennis, vs. West Virginia, 3:30 p.m.

Wednesday, May 20

Lecture on community planning, 8 p.m., Room 10 Sparks, by Nathan K. Mendelsohn, president of the California City Development Co. sponsored by the department of architecture.

Biological Sciences Lectures Series, 3:55 p.m., Room 109 Armsby. Dr. Richard M. Fraps, chief, physiological section, poultry branch, U. S. Dept. of Agriculture, on "Diurnal Periodicity in Hen's Ovulation Cycle."

Thursday, May 21

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Dr. Arnold R. Weber, associate professor of industrial relations, University of Chicago, on "Retraining the Unemployed: Public and Private Experience."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. Jack Halpern, University of Chicago, on "Some Aspects of Electron Transfer Mechanisms."

John Henry Frizzell Extempore Speaking Contest finals, 7 p.m., Room 10 Sparks.

Meeting of College of Agriculture faculty, 3:55 p.m., Room 109 Armsby.

Friday, May 22

Biophysics Seminar, 11:10 a.m., Room 105 Walker. Dr. Leo Mendelkern, Florida State University, on "Contractile Processes in Fibrous Macromolecules."

ALUMNI GIVING

Contributions to the University through the 1964 Alumni Fund totalled \$256,954.87 from 10,029 contributors as of May 11.

PERSONNEL MATTERS



Ralph U. Blasingame, professor emeritus of agricultural engineering, and head of the department from 1931 to 1951, died Saturday, May 9, at the age of 77. He was a member of the faculty for 34 years, coming from Alabama Polytechnic Institute as professor of agricultural engineering, organized the farm machinery department in 1921, and ten years later organized the four-year program in agricultural engineering. He was a graduate of Alabama Poly. While on leave in 1945 he taught at the American University of Shrivensham, England, at a college operated for servicemen.

James A. Stranahan, assistant professor of industrial engineering and a member of the Continuing Education Management Training staff at McKeesport, died May 10, at the age of 48. He joined the staff in February, 1956, on a special assignment and became a full-time member of the staff July 1, 1956.

Gill lecture

Dr. Theodore A. Gill, president of San Francisco Theological Seminary, will be the concluding speaker in the regular Saturday lecture on the theme, "New Accents in Contemporary Protestant Thought," tomorrow (Saturday) at 8 p.m. in the Memorial Lounge of The Chapel.

He will talk on "New Accents in the Life of the Local Church."

faculty BULLETIN

Vol. 51, No. 43 May 15, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

**PENN STATE COLLECTION
PATTEE LIBRARY**

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

ITEMS OF INTEREST



ELECTED AND APPOINTED

BIRKENMAYER, S. S., Slavic Languages, appointed head of the East European Section, Modern Languages Association Bibliography Committee for a second two-year term.

DEVINNEY, R. N., English at Allentown, chosen judge for the sixth year of National Debate Tournament at the U. S. Military Academy at West Point.

—elected president of the Commonwealth Campus Speech Concourse.

FOLEJEWski, ZBIGNIEW, Slavic languages, reappointed to the editorial committee for publications of the Modern Language Association for a five-year term.

HAMILTON, LOUISE W., foods and nutrition, elected president of the Penna. Dietetic Association beginning Nov. 1.

HUMMEL, F. A., ceramic technology, named president-elect of the Ceramic Educational Council.

—elected secretary-treasurer of the Penna. Ceramic Association.

KELLEY, E. J., business administration, appointed chairman of the Doctoral Task Force of the American Marketing Association.

KELZ, J. W., counselor education, elected national membership chairman elect of the National Vocational Guidance Association.

LECTURES AND TALKS

At the Ninth Annual Convention of the International Reading Association in Philadelphia, the following talks by College of Education faculty: COULTER, MYRON, "The Hawthorne Effect in Reading Research," discussant; HEILMAN, ARTHUR, "The Nature and Nurture of College Reading Programs"; and KERFOOT, J. F., "Comprehensive Comprehension."

(Continued on page three)

Graduate grades

The Graduate School Office dishes to remind members of the faculty of the new grading system applying to graduate students and which goes into effect this term. The Graduate Faculty recently approved revision of the grading system, as follows:

1. Grades H and P have been abolished.
2. A new set of grades, A,B,C,D, and F has been adopted.
3. Grades A, B, and C will have the same significance and grade-point value as in the current system for courses in the 1-499 sequence.
4. The D grade, having a grade-point value of 1, will be the normal failing grade for graduate students and will carry no graduate credit.
5. The F grade, with a grade-point value of zero is a very severe failing grade implying an adverse judgment relative to the student's potential for further graduate study.
6. These grades apply to graduate students in 400, 500, and 600 level courses and will go into effect this term. There is no change in the use of R for 600 and 610 level courses.
7. In the future, a minimum grade-point average of 3.0 for graduate work done at this University will be required for all graduate degrees and for admission to the comprehensive doctoral examination. No conversion of old records to the new system is planned. Grades of C earned in 400-level courses in the past will continue to carry no graduate credit.

Dunlop degree

James W. Dunlop, professor of music education, will be awarded the honorary doctor of music degree by Salem College, Salem, W.Va., at Commencement Exercises Sunday, May 31.

He will be honored for his work with young musicians and bands.

In addition to conducting the Penn State Blue Band, Dunlop has travelled widely as a clinician, adjudicator, and guest conductor, and has made annual visits to West Virginia to promote better bands and band music.

A member of the faculty since 1947, Dunlop taught in Mt. Jewett and Emporium schools before coming here. Since 1949 he has been director of the Pennsylvania Future Farmers of America band.

Accreditation

The School of Journalism has been re-accredited by the American Council on Education for Journalism, formally recognized agency for the accreditation of programs of professional journalism education in colleges and universities in this country.

Penn State is now the only journalism school in Pennsylvania accredited by the ACEJ.

Lloyd papers

Manuscripts and papers of Nelson McAllister Lloyd, Pennsylvania News paperman and author, have been acquired by Pattee Library as a gift from his son, C. E. G. Lloyd.

A graduate of Penn State, class of 1892 in electrical engineering, Lloyd became a reporter for the New York Sun and was named city editor in 1900. In the same year he wrote the first of seven books published during his life.

Among his works were collections of short stories, "Six Stars" and "The Chronic Loafer," as well as the novel, "A Drone and a Dreamer," "A Soldier of the Valley," "Mrs. Radigan," "The Robberies Co., Ltd." and "David Malcolm."

French class

A few places are yet to be filled in the children's demonstration French class to be held this summer by the NDEA Summer Language Institute for Elementary Teachers of French. The children are those who will be entering third and fourth grades in September.

Classes will be held Monday through Friday, 10:10 to 11:00 a.m. in Boucke Building, starting June 29 and continuing through August 13.

There is no charge for the class. Parents interested in enrolling their children should call the Institute office, 865-3122.

McFarland award

The David Ford McFarland Award for Achievement in Metallurgy, given annually by the Penn State Chapter of the American Society for Metals, will be given tomorrow (Saturday) at a dinner meeting at the HUB to F. Gordon Benford, general manager of the flat-rolled division of Allegheny Ludlum Steel Corporation.

ERRATA

In enrollment statistics listed in last week's Faculty Bulletin, an error had the effect of making home economics students out of almost all mechanical engineers. The correct summaries apply to the term-by-term statistics of University Park undergraduates for mechanical engineers, totals of the College of Engineering, and the totals for the College of Home Economics.

Mechanical engineering: 0-0-0—5-5-60—7-72-64—15-5-87—0-0-0; Men 239, Women 1, Total 260.

Engineering— 11-21-552—56-32-390—72-60-400—125-74-479—59-1-4; Men 2319, Women 17, Total 2336.

Home Economics—5-7-113—16-14-101—43-28-118—49-19-118; Men 93, Women 538, Total—631.

Fulbright winner

Dr. Bernard Oldsey, associate professor of English, will lecture at the University of Zaragoza, second oldest university in Spain, during the 1964-65 academic year under a Fulbright Grant.

He will lecture on American literature to advanced students of English and will also lecture at the University of Barcelona and the University of Madrid on occasion.

Dr. Oldsey has written many articles for literary publications on Sandburg, Hemingway, Salinger, D. H. Lawrence, and Hawthorne, and is co-author with Dr. Stanley Weintraub, associate professor of English, with a book, "William Golding," to be published early next year. He is also co-author, with emeritus professor Dr. Harold F. Graves, of the text, "From Fact to Judgment," and with A. O. Lewis, Jr., of "Visions and Revisions in Modern American Literary Criticism."

Fulbright program

Competition for 1965-66 United States government graduate grants for academic study or research abroad and for professional training in creative and performing arts opened on May 1, the Institute of International Education points out.

The Institute conducts competition for U. S. government scholarships provided by the Fulbright-Hays Act as part of the educational and cultural exchange programs of the Department of State.

Under this program, more than 900 American graduate students will have the opportunity to study in any one of 51 countries. The purpose of the awards is to increase mutual understanding between the people of the United States and other countries through the exchange of persons, knowledge, and skills.

Students wishing to apply for an award must be United States citizens and have a bachelor's degree or equivalent and also be proficient in the language of the host country.

Selections will be made on the basis of academic and professional record, feasibility of the applicant's study plan, and personal qualifications. Preference is given to those who have not previously lived or studied abroad and those not over 35 years of age.

Creative and performing artists, however, will not be required to have a bachelor's degree but must have four years of professional study or equivalent experience.

Three types of grants are available under the Fulbright-Hays Act: U. S. government full grants, joint U.S.-other government grants; and U. S. government travel-only grants.

Detailed information on the program is available through Dr. John C. Major, professor of English composition and Fulbright adviser, 244 Sparks Building.

CALENDAR



Friday, May 22

Russian and Slavic Area Study Seminar, 2:20 p.m., Room 414 Boucke. Dr. M. K. Dzienkowski, associate professor of history, Boston College, on "Poland and the Sino-Soviet Dispute."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. S. S. Goldich, chief, Isotope Geology Branch, Geological Survey, on "Analytical Problems in Geological Research."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Leo Mandelkern, professor of chemistry, Florida State University, on "Contractile Processes in Fibrous Macromolecules."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Pennsylvania high school championships in tennis and golf, 9 a.m. and 2 p.m. (preliminaries).

Saturday, May 23

Chapel Choir-Symphony Orchestra concert, Handel's "Judas Maccabaeus," directed by Willa Taylor, with soloists Barbara Troxelli Marie Gast, Samuel Gordon, and Raymond Brown, 8:15 p.m., Schwab Auditorium.

Finals of P.I.A.A. tennis and golf championships 9 a.m.; track championships, 10 a.m. and 2 p.m.

Varsity baseball, vs. Delaware, 1 p.m.

Sunday, May 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Rabbi Arthur J. Lelyveld, Fairmount Temple, Cleveland, Ohio, on "The Affirmation of Selfhood."

Lecture by Dr. Trude Weiss-Rosmarin, scholar on Judaism and editor of "The Jewish Spectator," on "Marx, Freud, and Bergson: 'Non Jewish Molders of the Modern Mind.'" Hillel Foundation, 8 p.m.

Showing of film, "All My Sons," by Arthur Miller, 8 p.m., Room 121 Sparks, sponsored by West Halls Cultural and Religious Affairs Committee. Admission Free.

Monday, May 25

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A."

Final part of Colloquy on "Perspectives of Religion," sponsored by Emerson Society, 8 p.m., Room 214 Boucke. Dr. Joseph Faulkner and Dr. John Walmer, leaders.

Tuesday, May 26

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Leonard L. Holliday, on "The ORL Digital Data Collection Reduction and Analysis System."

Opening night of "The Glass Menagerie," Pavilion Theatre, 8 p.m. Continues through Saturday, May 30.

Wednesday, May 27

American Psychological Association meeting, annual Walter Van Dyke Bingham Lecture by Dr. Norman H. Mackworth, Harvard University, on "Originality," 8 p.m., Room 121 Sparks.

Forestry Convocation, 11:10 a.m., Room 10 Sparks. William Voigt, Jr., executive director of the Interstate Advisory Committee, Susquehanna River Basin.

Sigma Delta Chi meeting, 7:30 p.m., Room 101 Chambers. Theodore F. Koop, vice president of the Columbia Broadcasting System and national president of Sigma Delta Chi, professional journalism society, on "The Best Informed Nation?" The public is invited.

Thursday, May 28

Electron Physics Seminar, 4 p.m., Room 219 Electrical Engineering. E. Reyner and J. Borusky, on "Laser Induced Thermionic Emission" and "Enhanced Emission with a Cesium Plasma."

Phi Beta Kappa Initiation Banquet, 6:30 p.m., Nittany Lion Inn. Dr. V. V. Aspaturian, on "Cuba and Vietnam: Dilemmas of American Foreign Policy."

Biological Sciences Lecture Series, 3:55 p.m., Room 214 Boucke. R. S. Bandurski, botany department, Michigan State University, on "The Metabolism of Sulfate."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. J. O. Edwards, Brown University, on "Alkaline Decompositions of Peroxides."

Computer workshop June 15-20

The third workshop in basic computer programming will be held between the Spring and Summer Terms, June 15 to 20. Due to scheduling difficulties there will be no class on June 18. Designed for research faculty staff, and graduate students with NO previous experience this workshop presents by means of lectures and practice the basics of FORTRAN as used on the IBM 7074. Five to seven hours each day for the five-day period will be involved. Participants will gain practice and knowledge in communicating with and solving problems on the computer.

Previous workshops of this type were attended by more than 200 research faculty and students. Most of the participants were able to code problems in their own specialty by the end of the period. These workshops consist of morning lectures and a practice period either in the afternoon or evening

as required by the work schedule of the attendee. No previous special knowledge is required as the workshop is at the technical level of entering freshmen.

It is planned that the third workshop will consist of 10 lectures of 75 minutes given two each morning starting at 9 a.m., Monday, June 15 through Saturday, June 20, with the Thursday, June 18 exception. Charles Forney, Jr., Acting Director of the Computation Center will be the lecturer.

Registration up to a total of 120 will be accepted starting May 18, 1964. Registration will require payment or transfer of \$4.50 for textbooks. Computer use charges will be borne by the Computation Center. Attendance includes programming practice computer use privileges for the Summer Term. Further information may be obtained at Room 105 Boucke Building, 865-7597 or 865-7598.

Employees choosing the extra monthly payroll deductions will have deductions spread over a twelve month period if they are on a continuing appointment. Other arrangement will be made for employees on non-continuing appointments to insure that back payments will be completed within one year from their effective date of coverage. Employees who are placed on leave without salary or on layoff status will have fewer pay periods in which the social security offset can be repaid; therefore, the amount of the payroll deductions for each pay period will have to be increased. It should be remembered that employees who elect the provisions of Act 518 will have all future retirement contributions based on their full rate of contribution. As a result, an employee will make higher current contributions while he is paying off the back amount owed to his retirement account. The current contributions will be increased by 1.35% of the first \$4,800 of earnings each year based on present social security rates.

Present employees will be given until December 15, 1965 to file their written decisions. Employees who plan to elect the provisions of Act 518 are reminded that the amount of the back payment will be higher if they wait until the end of the election period.

Each new employee hired between July 1, 1964 and December 31, 1965 will be given the choice of either full retirement benefits (same as Act 518) or reduced retirement benefits (present system). All persons employed after January 1, 1966 will automatically become members of the full retirement program.

The most significant benefit of this act is the increase in retirement benefits which can range between \$20 and \$50 per month depending upon the year of retirement and the choice of retirement option. For example, an employee retiring on July 1, 1964 who was employed prior to January 1, 1956 and who pays back the maximum of \$434.40 could have his retirement benefit increased by as much as \$34 per month. Later retirements will increase this amount to a maximum of \$50 per month under existing laws. An employee's investment is therefore recovered within a few years after retirement as shown in Chart B which projects additional contributions and increased retirement allowances to 1985.

Employees who do not elect to participate in Act 518 will continue to make contributions based on the two

different rates of contribution; a lower "offset" rate on the first \$4,800 of earnings and a full rate on all earnings about \$4,800 in a calendar year. It should be pointed out that there will be no effect of an employee's social security benefit regardless of his decision on Act 518. However, any future increases in the social security schedule of monthly benefits will reduce the retirement benefits for any employee who remains in the integrated program.

When distribution of the ballot form and the approximate cost figures is completed, specific questions relating to the provisions of Act 518 can be referred to the Employee Benefits Division, 304 Old Main Building, 865-6521. Subsequent articles will appear in this publication to provide even more information about this important change in the retirement law.

HOW TO COMPUTE

Chart A has been prepared to assist University employees in computing their approximate cost to eliminate the social security offset by electing the provisions of Act No. 518. First, read down the 1956 column until you are directly opposite the salary figure closest to your gross earnings in 1956. Circle the amount shown in the 1956 column. If your coverage in the combined retirement—social security program began after 1956, start with the first year of your coverage. An employee who joined the University on July 1, 1960 for example, would begin with the 1960 column. If you have not kept records of your earnings back to 1956, you should estimate these amounts to the best of your knowledge. *Please do not call University offices for your salary information. This information will be provided at a later date.*

The first amount which you have circled represents the approximate cost to eliminate the social security offset for that year; as an example:

An employee who earned \$3,425 in 1956 would circle \$27.20 in the 1956 column which is directly opposite \$3,400. \$3,400 is the amount on the chart closest to his earnings of \$3,425.

Employees whose gross earnings exceeded \$4,200 in 1956, 1957, and 1958 and \$4,800 for each year thereafter should circle the last amount given at the bottom of each yearly column. Employees who earned less than these amounts should repeat the first step for each year listed on the

chart. The amount circled for each year should then be entered in the column at the extreme right of the chart. By adding these annual amounts, you will arrive at your approximate cost to eliminate the back amount of your social security offset.

(NOTE: Employees who were members of either the State Employees' Retirement System or the Public School Employees' Retirement System after 1956 and prior to joining the University include the cost for those years.)

TWO EXAMPLES

EXAMPLE No. 1

Professor Smith has been with the University since July 1, 1940. When members of the State Employees' Retirement System were given the option, he elected to integrate his membership with the Federal social security program effective January 1, 1956. By checking his W-2 statements from 1956 through 1963, he found that his gross earnings exceeded \$4,200 in 1956, 1957, and 1958, and \$4,800 since 1959. His monthly check stubs (or bank deposit statements) reflect that \$4,800 will also have been reached by July 1, 1964.

As explained in this article, Professor Smith would owe the maximum of \$434.40 if he elects the provisions of Act No. 518 at any time up to December 15, 1964. Chart A, on the first page of this article, explains how the maximum is calculated. If he waits until he has earned over \$4,800 in 1965 before filing his election, the cost would be increased to \$499.20.

Professor Smith decides to vote yes for Act No. 518 and files his election with an effective date of July 1, 1964 having already earned in excess of \$4,800 during 1964. He then has these choices of payment:

- (a) Full amount of \$434.40 payable by lump sum before September 1, 1964 or
- (b) Payable by 12 equal monthly deductions of \$36.20 each beginning September 1, 1964 (Professor Smith is on a Plan A appointment).

Beginning January 1, 1965, Professor Smith's regular monthly retirement deduction will be based on his full rate of retirement contribution as will all subsequent deductions. This higher rate of contribution will mean that Professor Smith's regular retirement deductions will be increased by \$64.80 (1.35% of \$4,800) in 1965.

Professor Smith plans to retire on July 1, 1965 with 25 years of service.

Fulbright winner

Dr. Bernard Oldsey, associate professor of English, will lecture at the University of Zaragoza, second oldest university in Spain, during the 1964-65 academic year under a Fulbright Grant.

He will lecture on American literature to advanced students of English and will also lecture at the University of Barcelona and the University of Madrid on occasion.

Dr. Oldsey has written many articles for literary publications on Sandburg, Hemingway, Salinger, D. H. Lawrence, and Hawthorne, and is co-author with Dr. Stanley Weintraub, associate professor of English, with a book, "William Golding," to be published early next year. He is also co-author, with emeritus professor Dr. Harold F. Graves, of the text, "From Fact to Judgment," and with A. O. Lewis, Jr., of "Visions and Revisions in Modern American Literary Criticism."

Fulbright program

Competition for 1965-66 United States government graduate grants for academic study or research abroad and for professional training in creative and performing arts opened on May 1, the Institute of International Education points out.

The Institute conducts competition for U. S. government scholarships provided by the Fulbright-Hays Act as part of the education and cultural exchange programs of the Department of State.

Under this program, more than 900 American graduate students will have the opportunity to study in any one of 51 countries. The purpose of the awards is to increase mutual understanding between the people of the United States and other countries through the exchange of persons, knowledge, and skills.

Students wishing to apply for an award must be United States citizens and have a bachelor's degree or equivalent and also be proficient in the language of the host country.

Selections will be made on the basis of academic and professional record, feasibility of the applicant's study plan, and personal qualifications. Preference is given to those who have not previously lived or studied abroad and those not over 35 years of age.

Creative and performing artists, however, will not be required to have a bachelor's degree but must have four years of professional study or equivalent experience.

Three types of grants are available under the Fulbright-Hays Act: U. S. government full grants, joint U.S.-other government grants; and U. S. government travel-only grants.

Detailed information on the program is available through Dr. John C. Major, professor of English composition and Fulbright adviser, 244 Sparks Building.

CALENDAR



Friday, May 22

Russian and Slavic Area Study Seminar, 2:20 p.m., Room 414 Boucke. Dr. M. K. Dziewanowski, associate professor of history, Boston College, on "Poland and the Sino-Soviet Dispute."

Mineral Industries Colloquium, 3:45 p.m., Mineral Industries Auditorium, Dr. S. S. Goldich, chief, Isotope Geology Branch, Geological Survey, on "Analytical Problems in Geological Research."

Biophysics Seminar, 11:10 a.m., Room 300 Walker. Dr. Leo Mandelkern, professor of chemistry, Florida State University, on "Contractile Processes in Fibrous Macromolecules."

College of Agriculture faculty meeting, 3:55 p.m., Room 109 Armsby.

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

Pennsylvania high school championships in tennis and golf, 9 a.m. and 2 p.m. (preliminaries).

Saturday, May 23

Chapel Choir-Symphony Orchestra concert, Handel's "Judas Maccabaeus," directed by Willa Taylor, with soloists Barbara Troxelli, Marie Gast, Samuel Gordon, and Raymond Brown, 8:15 p.m., Schwab Auditorium.

Finals of P.I.A.A. tennis and golf championships 9 a.m.; track championships, 10 a.m. and 2 p.m.

Varsity baseball, vs. Delaware, 1 p.m.

Sunday, May 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Rabbi Arthur J. Lelyveld, Fairmount Temple, Cleveland, Ohio, on "The Affirmation of Selfhood."

Lecture by Dr. Trude Weiss-Rosmarin, scholar on Judaism and editor of "The Jewish Spectator," on "Marx, Freud, and Bergson: 'Non Jewish Molders of the Modern Mind,'" Hillel Foundation, 8 p.m.

Showing of film, "All My Sons," by Arthur Miller, 8 p.m., Room 121 Sparks, sponsored by West Halls Cultural and Religious Affairs Committee. Admission Free.

Monday, May 25

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A."

Final part of Colloquy on "Perspectives of Religion," sponsored by Emerson Society, 8 p.m., Room 214 Boucke. Dr. Joseph Faulkner and Dr. John Walmer, leaders.

Tuesday, May 26

Electrical Engineering Seminar, 4 p.m., Room 219 Electrical Engineering. Leonard L. Holliday, on "The ORL Digital Data Collection Reduction and Analysis System."

Opening night of "The Glass Menagerie," Pavilion Theatre, 8 p.m. Continues through Saturday, May 30.

Wednesday, May 27

American Psychological Association meeting, annual Walter Van Dyke Bingham Lecture by Dr. Norman H. Mackworth, Harvard University, on "Originality," 8 p.m., Room 121 Sparks.

Forestry Convocation, 11:10 a.m., Room 10 Sparks. William Voigt, Jr., executive director of the Interstate Advisory Committee, Susquehanna River Basin.

Sigma Delta Chi meeting, 7:30 p.m., Room 101 Chambers. Theodore F. Koop, vice president of the Columbia Broadcasting System and national president of Sigma Delta Chi, professional journalism society, on "The Best Informed Nation?" The public is invited.

Thursday, May 28

Electron Physics Seminar, 4 p.m., Room 219 Electrical Engineering. E. Reyner and J. Borusky, on "Laser Induced Thermionic Emission" and "Enhanced Emission with a Cesium Plasma."

Phi Beta Kappa Initiation Banquet, 6:30 p.m., Nittany Lion Inn. Dr. V. V. Aspaturian, on "Cuba and Vietnam: Dilemmas of American Foreign Policy."

Biological Sciences Lecture Series, 3:55 p.m., Room 214 Boucke. R. S. Bandurski, botany department, Michigan State University, on "The Metabolism of Sulfate."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Dr. J. O. Edwards, Brown University, on "Alkaline Decompositions of Peroxides."

Computer workshop June 15-20

The third workshop in basic computer programming will be held between the Spring and Summer Terms, June 15 to 20. Due to scheduling difficulties there will be no class on June 18. Designed for research faculty staff, and graduate students with NO previous experience this workshop presents by means of lectures and practice the basics of FORTRAN as used on the IBM 7074. Five to seven hours each day for the five-day period will be involved. Participants will gain practice and knowledge in communicating with and solving problems on the computer.

Previous workshops of this type were attended by more than 200 research faculty and students. Most of the participants were able to code problems in their own specialty by the end of the period. These workshops consist of morning lectures and a practice period either in the afternoon or evening

as required by the work schedule of the attendee. No previous special knowledge is required as the workshop is at the technical level of entering freshmen.

It is planned that the third workshop will consist of 10 lectures of 75 minutes given two each morning starting at 9 a.m., Monday, June 15 through Saturday, June 20, with the Thursday, June 18 exception. Charles Forney, Jr., Acting Director of the Computation Center will be the lecturer.

Registration up to a total of 120 will be accepted starting May 18, 1964. Registration will require payment or transfer of \$4.50 for textbooks. Computer use charges will be borne by the Computation Center. Attendance includes programming practice computer use privileges for the Summer Term. Further information may be obtained at Room 105 Boucke Building, 865-7597 or 865-7598.



chapel choir

Barbara Troxell, a frequent soloist at Penn State, one of her pupils at Cornell University, Marie Gast, contralto, Samuel Gordon, tenor currently directing the Meditation Chapel Choirs, and Raymond Brown, associate professor of music and director of the Penn State Singers and the State College Choral Society, will be soloists for the performance of Handel's "Judas Maccabaeus," by the Chapel Choir and the Symphony Orchestra tomorrow (Saturday) at 8:15 p.m. in Schwab Auditorium.

Mrs. Willa Taylor will conduct the program, which is the seventeenth in a series which began with the performance of Mendelssohn's "Elijah," with Miss Troxell as soloist.

HOLDERS of reserved seat tickets are reminded that unless their seats are occupied by 8:10 p.m., the seats will be made available to those not having tickets. Also, anyone who has tickets and who finds that he will not be able to attend should return the tickets to The Chapel second floor desk.

women's choir

The music of contemporary composer Luigi Zaninelli will be featured by the Women's Chorus, directed by Dr. W. Paul Campbell, in its concert Sunday at 3 p.m. in Schwab Auditorium.

The second half of the concert's program will be devoted to the works of Zaninelli, American-born artist who has studied composition with Gina-Carlo Menotti at Curtis Institute and with Rosario Scalerio, one of Brahms' outstanding students. In musical style his compositions tend towards the neo-classic. Italian-American influences are evident in works for orchestra, concert band, chorus, instrumental ensemble, piano, solo voice.

Among the Zaninelli works to be performed are "The Water Is Wide" and "The World Is So Full," based on poems by Robert Louis Stevenson, and compositions to be performed by a woodwind quintet, directed by Rex Rockwell, and by a brass quintet, directed by Ned C. Diehl.

The first half of the concert will feature works by Samuel Richard Gaines, Huston Bright, Henry Purcell, Jean Philippe Rameau, Brahms, Deems Taylor, and Arthur Frackenpohl.

pavilion play

The Tennessee Williams' Broadway success, "The Glass Menagerie," will be the concluding production at Pavilion Theatre this year, opening Tuesday, May 26, and closing Saturday, May 30.

Tickets may be reserved by calling the box office, 865-6309.

The four-part play is considered one of the finest plays of the American theatre. It concerns Amanda Wingfield, an aging widow who lives in the past, her daughter, Laura, an inhibited young woman whose glass menagerie is her sole comfort, and the son, Tom, who seeks to escape the dingy world in which the three live. The fourth character is the gentleman caller who offers Laura temporary escape.

The lead role of Amanda will be played by Judy Miller, senior in theatre arts, who will be required to go through an aging process, both in makeup and in characterization.

meditation choir

Soloists for the concert by The Meditation Chapel Choirs May 30 at 8:15 p.m. in Schwab Auditorium will include Sandra Sliker, 1961 graduate, William Favand, sophomore in arts, and Dale Livingston, senior in music education.

One section of the choirs will open the program with three settings of the Ave Maria, the Missa Brevis, and Noel Goemanne, directed by The Rev. Nathaniel May, O.S.B.

Samuel Gordon will conduct the other choirs in works by Bach, Pachelbel, and Maurice Duruflé.

Walter Neil will be organist.

RUSSIAN ACADEMY

A report on the research work of Dr. Ernst A. Ebbinghaus, professor of German, has been included in the official journal of the Linguistic Institute of the Academy of Sciences in Moscow, U.S.S.R. The research is concerned with the bibliographic studies of "Lay of Hiltbrand," an epic said to be composed about 800 A.D. Dr. Ebbinghaus does much research in Old English and Old High German.

ALUMNI FUND

Total contributions to the Alumni Fund as of May 18 amounted to \$263,185.64, from 10,440 contributors.

SUSQUEHANNA

William Voigt, Jr., executive director of the Interstate Advisory Committee on the Susquehanna River Basin, will be the speaker for the Forestry Convocation Wednesday, May 27, at 11:10 a.m. in Room 10 Sparks.

ITEMS —

(Continued from page one)

CIEPLAK, TADEUSZ, political science, main address at the annual May Third Institute, Alliance College, Cambridge Springs, Pa. COLOGNE, ROSK M., home-community relationships, "Women's Place in World Affairs," at a meeting of the American Association of University Women, in Reading. DELEVE, DAGOBERT, German, "International Understanding through Student Exchange," before the Harrisburg Kiwanis. FRICK, J. V., speech pathology, "Group Parent Counseling," before the annual meeting of Prince George's County (Md.) Chapter of the Council for Exceptional Children.

"Counseling with Parents of Handicapped Children," before the spring meeting of School Psychologists of Upstate New York, at Binghamton.

HOWELL, B. F., Jr., geophysics, "The Origin of the Continents," "The Interior of the Earth," and "The California Earthquake of 1952," before students, faculty, and visitors at the State University of New York at New Paltz, N. Y., as American Geological Institute visiting lecturer.

HYSLOP, LOIS BOE, French, "Baudelaire: A Modern Poet," at Susquehanna University. INSMAN, M. C., engineering mechanics, "Grain Boundary and Twin Boundary Energies" at the U. S. Steel Research Laboratory in Monroeville.

KRAWIEC, J. F., clothing and textiles, "What Future for Hospital Laundries," at the meeting of the American Hospital Association.

LACHMAN, R. L., New Kensington, "The Engineering Technician" at Butler High School's College Night.

McKINLEY, D. H., Business Administration, "American Business in 1964," before the Lehigh Valley Purchasing Agents Association in Easton.

MOURANT, W. A., philosophy, "Some Unresolved Issues in Berkeley's Natural Theology," at Notre Dame University.

PALERMO, D. S., psychology, "Paired Associate Learning as a Function of the Strength of Links in the Associative Chain," at the meeting of the Midwestern Psychological Association in St. Louis.

SINIZ, R. E., engineering at Allentown, "Careers in Electronics," at Bangor Area High School Career Day.

THOMAS, W. L., agronomy, "The Use of Genetic Mechanisms to Reduce Danger to Humans from Radioactive Fallout" and "Differential Chemical Element Accumulation in Plant Genotypes," at Western Maryland College.

TESI, A. F., clothing and textiles, "The Impact of Textile Research and Development on the American Family," at the annual meeting of the West Virginia State Home Economics Association at Jackson Mills, W. Va.

WRIGHT, J. E., botany, "Blood Types and Serotypes in Fishes," at the Millersville State College Science Majors Seminar; also "Genetic Biology from Mendel to the Genetic Code," for the Seventh Annual High School Science Night.

"Blood Types in Trout," before the biology class at George School.

Retirement Benefits

New law gives opportunity to increase retirement income

Elimination of Social Security offset is choice of University faculty and staff members. Ballots will be distributed soon so staff can express preferences.

Beginning July 1, 1964, University employees who integrated their membership in the State Employees' Retirement System with the Federal Social Security program will be given the opportunity to take advantage of a new law aimed at increasing their retirement benefits. At the present time an employee pays a lower percentage of his salary into his retirement account during the months that

he is also paying the social security tax (first \$4,800 of earnings each year). For example, any male employee who joined the staff at age 25 after July 1, 1948 presently pays 4.16% into his retirement account on his first \$4,800 of earnings each year. His rate of contribution is increased to 5.51% for all earnings in excess of \$4,800 each year. The difference between 4.16% and 5.51% is called the "social security offset."

The new law, Act No. 518, provides for the opportunity for higher retirement benefits by elimination of this "social security offset." It will permit active employees to do the following if they elect the provisions of this new law:

- have current and future retirement contributions computed at the higher (full) rate of contribution, and
- repay the amount of the social security offset to January 1, 1956 or date of hire, whichever is later. January 1, 1956 was the date of the integration with the Federal social security program.

Current laws provide that an employee is given this opportunity only when he is actually retiring and the full amount that he owes must be paid in a lump sum at that time. An employee who does not elect the provisions of this new law will still be permitted to pay for the offset at retirement but the cost increases each year that an employee participates under the present arrangement.

An employee who decides to parti-

cipate under the new law will pay to the retirement board an amount representing the difference between retirement contributions made under the integrated plans and contributions which would have been made if the employee had been paying at the full rate of contribution since 1-1-56 or date of hire if later. The actual amount owed will vary depending upon each employee's income between 1956 and 1964 but cannot be greater than \$434.40 as of July 1, 1964. Employees whose salaries exceeded \$4,200 in 1956, 1957, and 1958, and \$4,800 since 1959 will owe this maximum of \$434.40. For employees who earned less than those amounts, the total will be smaller. Chart A, appearing elsewhere on this page, will show employees how to estimate their cost for electing the provisions of Act 518.

Ballot forms for employees to state their preference will be distributed after they are received from the retirement board. Each employee will be required to state a preference by writing either "Yes" or "No" on the ballot form. To assist him in making a choice, the University will also provide each eligible employee with a statement of his approximate cost based on available salary records.

Employees who write "Yes" on their ballot form will then choose either a lump-sum payment or extra payroll deductions to repay the amount of the back contributions within a twelve-month period. If the lump-sum method is chosen, payment must be made within two months from the employee's effective date of coverage according to the schedule below:

CHART A CHART FOR COMPUTING THE APPROXIMATE AMOUNT OF RETIREMENT PAYMENTS OWED TO TAKE ADVANTAGE OF ACT No. 518

INSTRUCTIONS: Enter your gross earnings in column (2) for each year of University Employment since 1956. Do not show more than \$4,200 in 1956, 1957, and 1958 or more than \$4,800 for each year thereafter. These maximum salaries will result in the maximum cost of \$434.40 as shown in the bottom chart. To figure the cost as of July 1, 1964, enter just the first six months of earnings for 1964. Multiply annual gross earnings by factor shown in column (3). Enter the result in column (4). Add the amounts in column (4). The total is your approximate cost as of July 1, 1964.

Year	Enter Annual Gross Earnings	Multiply by This Factor	Approximate Cost
1956	\$-----	.008	\$-----
1957	\$-----	.008	\$-----
1958	\$-----	.008	\$-----
1959	\$-----	.009	\$-----
1960	\$-----	.011	\$-----
1961	\$-----	.011	\$-----
1962	\$-----	.0115	\$-----
1963	\$-----	.0135	\$-----
1964	\$-----	.0135	\$-----
Total cost			\$-----

CHART SHOWING MAXIMUM COST CALCULATION

1956	\$4,200	.008	\$ 33.60
1957	\$4,200	.008	\$ 33.60
1958	\$4,200	.008	\$ 33.60
1959	\$4,800	.009	\$ 43.20
1960	\$4,800	.011	\$ 52.80
1961	\$4,800	.011	\$ 52.80
1962	\$4,800	.0115	\$ 55.20
1963	\$4,800	.0135	\$ 64.80
1964	\$4,800	.0135	\$ 64.80
Total cost			\$434.40

If you elect to become a member of the dual coverage group

Before June 15, 1964
From June 16, 1964 to September 15, 1964
From September 16, 1964 to December 15, 1964
From December 16, 1964 to March 15, 1965
From March 16, 1965 to June 15, 1965
From June 16, 1965 to September 15, 1965
From September 16, 1965 to December 15, 1965

The effective date of your election and date for contributing at the full retirement rate will be:

July 1, 1964
October 1, 1965
January 1, 1965
April 1, 1965
July 1, 1965
October 1, 1965
January 1, 1965

As of the date of his retirement, his extra retirement contributions will have totalled \$499.20 (\$434.40 for 1956-64 and \$64.80 for 1955). Depending upon his choice of options, Professor Smith's retirement benefit can be increased by as much as \$462.00 per year. His total investment of \$499.20 can then be recovered in approximately 13 months after retirement.

EXAMPLE No. 2

Professor Jones was appointed to the faculty on January 1, 1961. He automatically became a member of the retirement plan with social security coverage and has received a salary in excess of \$4,800 for each year of employment.

The professor decides to accept the benefits of Act 518 and files his election effective October 1, 1964. Assuming that he has earned over \$4,800 by October first, it will cost Professor Jones \$237.60 to pay the social security offset back to January 1, 1961.

Professor Jones continues to teach until July 1, 1976 when he retires with 15 years of service. For the years from 1965 through 1976 he has paid additional retirement contributions amounting to \$969.60. The total additional contributions to his retirement account therefore amounted to \$1,207.20.

At retirement, again depending upon choice of options, Professor Jones could receive an increased retirement benefit of \$600.00 each year. His investment would therefore be recovered in approximately two years after retirement.

CHART B

Chart Showing Maximum Difference in Contributions and Retirement Allowances for Employees Who Elect the Provisions of Act 518

(Based on Salaries of \$4200 or More in 1955, 1957, 1958 and \$4800 or More Thereafter)

Calendar Year Ending December 31	Yearly Differences in Contributions	Accumulated Difference (Amount of Repayment Necessary)	Increased Amount of Annual Retirement Benefit (Approximate)	Number of Years and Months to Recover Investment After Retirement (Approximate)
1956	33.60			
1957	33.60	67.20		
1958	33.60	100.80		
1959	43.20	144.00		
1960	52.80	196.80		
1961	52.80	249.60		
1962	55.20	304.80		
1963	64.80	369.60		
1964	64.80	434.40	414.00	1 year, 1 month
1965	64.80	499.20	462.00	1 year, 1 month
1966	74.40	573.60	510.00	1 year, 2 months
1967	74.40	648.00	558.00	1 year, 2 months
1968	84.00	732.00	606.00	1 year, 3 months
1969	84.00	816.00	609.60	1 year, 4 months
1970	84.00	900.00	609.60	1 year, 6 months
1971	84.00	984.00	609.60	1 year, 8 months
1972	84.00	1068.00	609.60	1 year, 9 months
1973	84.00	1152.00	609.60	1 year, 11 months
1974	84.00	1236.00	609.60	2 years, 1 month
1975	84.00	1320.00	609.60	2 years, 2 months
1976	84.00	1404.00	609.60	2 years, 4 months
1977	84.00	1488.00	609.60	2 years, 6 months
1978	84.00	1572.00	609.60	2 years, 7 months
1979	84.00	1656.00	609.60	2 years, 9 months
1980	84.00	1740.00	609.60	2 years, 11 months
1981	84.00	1824.00	609.60	3 years
1982	84.00	1908.00	609.60	3 years, 2 months
1983	84.00	1992.00	609.60	3 years, 4 months
1984	84.00	2076.00	609.60	3 years, 5 months
1985	84.00	2160.00	609.60	3 years, 7 months

NOTE: This chart is projected according to present retirement and social security laws and therefore is subject to future change.

faculty BULLETIN

Vol. 51, No. 44 May 22, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

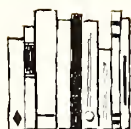
PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

BOOKS



Dr. Joseph H. Dahmus, professor of medieval history, is author of the textbook, "A History of Medieval Civilization," published by the Odyssey Press, New York. He emphasizes the cultural development in the Middle Ages in literature, education, art, and architecture. In company with the 15 chapters are readings from contemporary sources to supplement and illustrate the text material.

★ ★ ★

Dr. Reed T. Phelan, associate professor of business law, is author of a book, "Introduction to Basic Legal Principles," which was written for college business law courses and their liberal arts equivalents. It was published this month by International Textbook Co., Scranton. Attention is focused on the policy reasons and interplay of policy factors which make the basic rules of business law what they are today, under the common law and according to the Uniform Commercial Code.

★ ★ ★

Dr. Ernst A. Ebbinghaus, professor of German, is the editor of a 68-page concise grammar of Old High German. Written originally by Wilhelm Braune, in 1891, the subsequent editions were revised by Braune and by his pupil, Karl Helm. After Helm's death, Dr. Ebbinghaus was entrusted with future editions of the book, which is internationally known and used in this country and in others, even though it is written in German.

President elected

President Walker was elected chairman of the National Science Board, governing body of the National Science Foundation, May 21.

He replaces Dr. Detlev W. Bronk, recently-retired president of the Rockefeller Institute, New York.

Dr. Walker was appointed to a six-year term on the National Science Board by President Dwight D. Eisenhower in 1960. The Board supervises the activities of the National Science Foundation, which since 1950 has stimulated research in the U.S. and abroad. The NSF has an operating budget of more than a quarter billion dollars annually.

Dr. Walker has just completed a term as president of the Engineers' Joint Council and a term as president of the American Society for Engineering Education.

Commencement

June Commencement Exercises are scheduled to be held in Beaver Stadium Sunday, June 14, at 2 p.m. In the event rain causes cancellation of outdoor ceremonies, there will be no indoor exercise as in the past but instead diplomas will be distributed informally at designated points according to the student's college.

If there is doubt concerning the holding of an outdoor ceremony, an announcement will be made at noon, via radio.

More than 3,000 degrees will be conferred during the ceremonies, including approximately 2200 baccalaureate, 475 associate, and 360 advanced degrees.

The program will also include the awarding of the Ralph Dorn Hetzel Award, the John W. White Medal, and the John W. White Fellowships for graduate study.

Stations at which students will receive their diplomas if an outdoor ceremony is not held are as follows:

Agriculture—112 Buckhout; **Arts and Architecture**—128 Sackett; **Business Administration**—HUB ballroom; **Education**—Schwab; **Engineering**—first floor Sackett.

Health and Physical Education—101 Chambers; **Home Economics**—209 Home Economics South; **Liberal Arts**—121 Sparks; **Mineral Industries**—Mineral Industries Auditorium; **Science**—119 Osmond.

Associate degrees: Engineering—215 Hammonds; **Hotel and Food Administration**—209 Home Economics South; **Business Administration**—HUB ball room; **Agriculture**—112 Buckhout; **Chemistry technology**—119 Osmond.

Graduate—Ice Rink Pavilion.

NSF program

Penn State is one of 109 colleges and universities taking part in a new National Science Foundation program of Graduate Traineeships in Engineering. The program will be initiated in the fall with 1,220 graduate students in engineering.

Thirteen trainees have been appointed to Penn State, under a grant of \$63,931. Nationally, the grants will total \$6 million.

Dr. E. B. Van Ormer, assistant dean of the Graduate School, is coordinator of the program here.

Psychiatrist speaks

Dr. Lewis R. Wolberg, M.D., medical director and dean of the Postgraduate Center for Mental Health in New York City, will speak today (Friday) on "The Case for Short-term Psychotherapy" at 8 p.m. in Room 101 Chambers.

The talk, which is sponsored jointly by the Division of Counseling and the Ritenour Health Center, is open to the public.

Dr. Wolberg is distinguished for his contributions to the practice of psychiatry and the treatment of behavior disorders. He is the author of more than fifty publications and particularly for the two-volume "Medical Hypnosis" and for the text "Techniques of Psychotherapy."

Oil chemists

A five-day symposium, titled "Quantitative Methodology in Lipid Research" will be held here August 3-7, sponsored by the American Oil Chemists' Society. Dr. James F. Shigley, associate professor of biochemistry, is faculty representative on the planning committee for the symposium.

About 400 scientists from across the nation will be enrolled and specialists in lipids and fats will give papers on a variety of topics, including infrared spectroscopy, chromatography, chemical synthesis, lipids, fatty acids, and medical aspects of lipids.

Medical program

The second class of students enrolled in the Five-Year Cooperative Program in Medicine, which Penn State and Jefferson Medical College provide jointly, will enroll 26 outstanding high school graduates.

They will begin their program with the Summer Term and for five successive terms will be enrolled at Penn State.

All are in the upper tenth of their high school classes and had SAT scores above 1300.

Parents Queried

Parents of sophomore students surveyed recently are interested in Penn State and would like to be better informed on what is happening here.

A committee headed by Reed Ferguson, director of University relations, and appointed by President Walker to study what should be done to better inform parents, made the survey as a guide to future planning.

The Committee learned that many parents would like a regular report, as frequently as weekly or at least once a term, in the form of a bulletin, newspaper, or letter, on what is happening at Penn State. No suggestion was made in the questionnaire that such an idea was being considered by the Committee, but 15 per cent of those who answered said they wished such a publication would be started. A number asked only for the opportunity to subscribe to such a paper.

Nearly a fourth of the parents expressed a wish to see a closer relationship between the student and a counselor, to receive some notification of failing grades before the end of the term, or to meet with the faculty advisor occasionally. One comment: "We think the parents would like more knowledge of how their son or daughter is doing before it is too late. A child may be a bit optimistic and perhaps not realize he or she isn't doing well."

There were 209 postcard returns, about half of those distributed. A surprising majority of the parents, 64% in fact, said their sons and daughters wrote to them weekly, but a significant number crossed out "letter" and wrote in its place "telephone." One parent indicated her son wrote weekly as a freshman, monthly as a sophomore, but another parent checked "daily letters" from the son and two other families checked "daily letters" from their daughters.

One of the questions sought the frequency with which the parents have visited the campus: More than half have visited from one to five times; 16 per cent had visited more than 10 times. Events checked most frequently were: football games, 27 per cent; Mother's Day activities, 22 per cent; transporting their children, 68 per cent. Pre-admission interviews and summer counseling before the student began as a freshman brought the most parents to the campus.

About two-thirds of those responding would like to come to the campus for a Parent's Weekend (they responded in answer to a specific question). Many expressed a desire to see the physical plant, a class in session, and the laboratories. Some wanted to see their son's professor.

Anthropology in Peru

Dr. Paul T. Baker, associate professor of anthropology, and Dr. Elsworth R. Buskirk, professor of physiology and director of the Laboratory for Research on Human Performance, will head a four-year study project in Peru in an attempt to learn how the native Indian population became adapted to the environment at 14,000 feet above sea level.

A 1200-square foot adobe building will be built in the Andes Mountains this summer to house an anthropology laboratory in which will be housed modern physiology equipment, including a controlled temperature chamber.

The project is an outgrowth of a pilot study made by Dr. Baker and students in 1962, under a grant from the U. S. Army Medical Research and Development Command, which indicated that native Indians could withstand low temperature better than

"outsiders" or those Indians who had been raised in an environment which protected them.

The Army has provided a grant of \$254,123 to explore the problem in greater depth. Such factors as nutrition, disease, physical fitness, body structure, shelter, clothing and living habits, will be studied in their relation to the Indians' adaptation to rarified air and low temperature.

The major cultural and biological studies will begin in June, 1965, and the next few months will be used to construct the laboratory, taking a census, and making anthropometric measurements of the natives.

Among the biological and cultural studies to be made are the calorimetric studies of heat and energy loss, measurement of body composition and fat content, x-ray studies of skeleton and muscle, and of the daily rituals such as sleeping and eating.

CLASS GIFT

The 1964 Class has voted a total of \$4,646 to purchase an American cultural heritage collection of books for Pattee Library. Included will be works in the arts, music, history, discovery and exploration, government and politics, and other areas. The collection is to be completed by January, 1967.

PHI BETA KAPPA

Members of Phi Beta Kappa, who have not affiliated with the local chapter, are invited to do so by contacting Mrs. Frances Smith, catalogue librarian, Room 210 Pattee Library. Graduate students as well as faculty members are urged to make known to Mrs. Smith their membership in the honorary society.

ALUMNI FUND

The total of contributions to the 1964 Alumni Fund was \$272,553.14, from 11,407 contributors, as of May 25.

SEMINAR

The future of work, leisure, and education in a changing industrialized democracy will be the theme of a seminar sponsored by the Center for Continuing Liberal Education June 3-5. About 75 persons in business, labor, education, religion, government, and mass communications will be enrolled for the three-day meeting which is a sequel to the conference held last year on technology and human values.

OGONTZ

The Hon. John K. Tabor, Penna. Secretary of Commerce, will be the principal speaker for the graduation exercises for Continuing Education students at the Ogontz Campus June 7. Certificates and diplomas will be awarded to graduates of the Ogontz, King of Prussia, and Springfield (Delco) Evening Schools.

FOREIGN EXCHANGE

Three senior students in business administration—David Eller, E. Curry First, III, and Lynn D. Hyatt—will study in Europe during the summer as foreign exchange students, sponsored by the Association Internationale des Etudiants en Sciences Economiques et Commerciales. The Association is an international organization of students in economics and commerce designed to promote friendly relations between students and nations through "study traineeships."

TELEVISION

The University's new television station, WPSX, Channel 3, has received two gifts of equipment, with a total valuation of more than \$25,000. The Taft Broadcasting Co., of Cincinnati, has donated a used 450-foot tower appraised at \$15,000. Station WJAC, Johnstown, has made a gift of equipment needed for transmission of the signal, valued at \$10,575.

NSF FELLOWS

The National Science Foundation has awarded fellowships to 22 Penn State students to continue graduate studies, 12 to receive cooperative graduate fellowships for the next academic year and 10 to receive summer fellowships for graduate teaching assistants.

GRANTS



R. E. McDermott, forestry, \$6,140, National Science Foundation, for advanced science seminar on genetic improvement for disease and insect resistance of forest trees.

W. R. Buessem, Materials Research Lab, \$3,100, Sprague Electric Co., for graduate fellowship.

W. A. Weyl, Mineral Industries, \$500, Bosch and Lomb, Inc., to aid preparation of book.

W. H. Powers, continuing education in science, \$40,290, National Science Foundation, for in-service institute in science and mathematics for high school teachers of science and mathematics.

Dean Asquith, Arendtsville agricultural entomology, \$1,000, Rohm and Haas, for research on fruit insects.

C. D. Stahl, petroleum engineering, \$3,000, Continental Oil Co., for graduate fellowship.

L. N. Mulay, Materials Research Laboratory, \$5,000, Paint Research Institute, for magnetic studies of titanium dioxide, aluminum oxide subjected to high temperature treatment.

B. W. Niebel, industrial engineering, and **L. J. Perez**, Engineering, \$10,700, Western Electric Co., for courses in engineering and industrial engineering for Western Electric employees.

Rustum Roy, Materials Research Laboratory, \$3,000, Bausch and Lomb, Inc., for an industrial fellowship program.

Dean Asquith, Arendtsville, \$500, Stauffer Chemical Co., for research on fruit insects.

M. C. Inman, engineering mechanics, \$13,000, Air Force Office of Scientific Research, for basic study of dispersion hardening as a method of attaining high temperature strength in materials.

D. E. Kline, nuclear engineering, \$28,920, N.A.S.A., for theoretical and experimental studies of the thermal conductivity of high polymers.

D. L. Westby, sociology, as sponsor of **R. A. Rehberg**, \$7,360, U. S. Office of Education, to conduct analysis of determinants of adolescent career plans and assess the impact of chronic economic distress upon adolescent educational and occupational expectations and aspirations.

G. W. Brindley and **Rustum Roy**, Materials Research Laboratory, \$27,400, American Petroleum Institute, for hydrothermal and structural studies of minerals.

F. H. Lewis, Arendtsville, \$500, Stauffer Chemical Co., for research on fruit diseases.

H. D. Wright, geochemistry and mineralogy, \$1508, U. S. Agency for International Development, to support research program of Dr. Carlos Ferreira in analytical radiochemistry.

C. J. Noll, horticulture, \$1,000, Diamond Alkali Co., for work on herbicides for sweet corn.

R. J. Watson, geology and geophysics, \$8,000, American Petroleum Institute for seismogram interpretation.

F. W. Lampe, chemistry, \$21,600, American Chemical Society, for research on reactions and properties of chemical transients.

M. H. Goldberg, Continuing Education in Liberal Arts, I.B.M. Corp., to provide for four high level seminars on the problems of technological change and human values.

V. H. Neubert, engineering mechanics, \$19,692, U. S. Office of Naval Research, for studies of shock analysis of structural networks.

W. T. Sanders, anthropology, \$17,900, National Science Foundation, for study of pre-hispanic settlement patterns of Teotihuacan.

A. H. Waynick, electrical engineering, \$38,300, National Science Foundation, for specialized upper atmosphere research facilities.

C. L. Hosler, meteorology, \$68,000, National Science Foundation, for the purchase of instrumented research aircraft.

A. D. Brickman, mechanical engineering, \$500, Syntrol Co., a Syntrol Vibratory Parts Feeder.

F. H. Lewis, Arendtsville, \$1000, Rohm and Haas Co., to support research in fruit diseases.

W. H. Powers, Science, \$2,000, Pittsburgh Plate Glass Foundation, for partial stipends in the Summer Institute for High School Teachers.

F. A. Joy, Institute for Building Research, \$105, American Siskraft Co., for test of permeance of a roof vapor barrier.

R. W. Lindsay, metallurgy, \$800, Armco Steel Corp., for Cooperative Program in Metallurgy.

Winona L. Morgan, Home Economics, \$45,664, Pennsylvania Department of Public Welfare, for operation of day care centers in various counties.

M. C. Inman, engineering mechanics, \$625, U. S. Naval Weapons Laboratory, for research costs of a doctoral candidate.

R. A. Aldrich, agricultural engineering, \$415.49, Dillion Research Fund, for research in plastic materials used in greenhouse construction.

F. H. Lewis, Arendtsville, \$1,000, Calornit Chemical Co., for research on fruit diseases.

R. H. Essenhigh, fuel technology, \$3,000, Stackpole Carbon Co., for support of a graduate fellow in fuel technology.

E. T. McDonald, special education, \$12,096, U. S. Public Health Service, for developmental study of oral stereognosis.

W. H. Adams, chemistry, \$22,100, National Science Foundation, for research on orbital theories of electronic structure.

J. K. Kindig, mineral preparation, \$211,370, U. S. Public Health Service, for research on elimination of air pollution from burning refuse piles. Also, \$9,600 for same purpose from Public Health Service.

W. I. Thomas, agronomy, \$31,320, A.E.C., for studies of the inheritance and characteristics of differential element accumulation by maize with particular emphasis on strontium and calcium.

Rustum Roy, Materials Research Laboratory, \$26,828.90, U. S. Army Electronics Material Agency, for crystal chemistry studies.

H. D. Wright, geochemistry and mineralogy, \$21,400, National Science Foundation, for studies of the distribution and solubilities of trace elements in sulfide minerals.

Cancer study

Dr. E. Cuyler Hammond, director of the Statistical Research Section of the American Cancer Society, will give a special report on the relationship between smoking and cancer at a meeting July 1 at 7:30 p.m. in the HUB Assembly Room.

His report will constitute the first statewide study report issued by the Cancer Society as a result of its six-year program of keeping running records of the physical status of some million people throughout the country, designed to determine the factors which cause cancers of all kinds.

The meeting will be open to all interested persons. It is sponsored by the College of Health and Physical Education and the local chapter of the American Cancer Society.

MacKenzie named

Ossian R. MacKenzie, dean of the College of Business Administration, has been named to direct a study of correspondence education for the National Council on Education and the National Commission on Accrediting.

A grant of \$90,000 from the Carnegie Corporation of New York has made possible the 15-month study, which will be the first effort in 30 years to trace the development of correspondence education, indicate its social contributions to American culture, and suggest the directions which this type of education might take in the future.

Tennis club

The Penn State Tennis Club will open June 1 and members of the faculty are invited to join for the season or by the month. Single memberships, man or woman, are \$25 for the season and \$12.50 for a month, which includes locker and laundry service for men.

Husband-wife memberships are \$35 per season and \$15 per month and family memberships are \$45 per season, \$17.50 per month. Junior memberships are \$12.50 for the season. A guest fee will be \$1 per half day.

Memberships may be paid at the main ticket office in Recreation Building.

Napier plan

The architectural design of a proposed school of jazz, by Robert J. Napier, assistant professor of architecture, is reported in the June 4 issue of "Downbeat." The design was first displayed in the HUB gallery in March.

PERSONNEL MATTERS



RETIREMENT

Clyde J. R. Witman, assistant professor of industrial engineering, will retire June 30. He joined the faculty in 1947, as instructor in machine shop, after serving at the Pottsville High School for the previous six years. He worked in industry for 30 years previously. He received his bachelor of science degree in vocational industrial education in 1953, after working on a part-time basis for it. He helped to design the underwater lighting of the nuclear reactor here and designed the instrument bridge.

APPOINTMENT

Bozidar P. Vuckovic, a native of Yugoslavia who earned a master's degree in agronomy at Rutgers University, has been appointed assistant county agent of Allegheny County. A graduate of the Royal University of Zagreb, Yugoslavia, he was employed in Europe, South America, and the U.S. before completing his graduate studies. He was a member of the research and press staff of the Free Europe Co., New York, when he began work at Rutgers.

LEAVES

Dr. Robert T. Oliver, head of the speech department, will be on leave during the Summer Term to travel in Europe studying the nature and influence of contemporary public address. The research will aid him in preparation of a book on the influence of public address since 1920.

Dr. Maurice B. Cramer, professor

of English, will conduct research on libraries on the East Coast and in England on problems of interpretations in works by Wordsworth and Browning, while on leave from June, 1965, to December, 1965.

Robert G. Weaver, associate professor of English, will work on an English textbook while on leave from Jan. 5 to March 25, next year.

Dr. A. Bruce Sutherland, professor of English literature, has been granted a leave of absence for the Winter and Spring Terms, 1965, to conduct research at the Mitchell Library in Sydney, Australia, and visit universities to study literary criticism of the last 20 years as it pertains to Australian literature.

Harold Altman, associate professor of art, will be on leave from September through June, 1965, to work in Paris under a Fulbright-Hays Senior Research Grant for France. He will create a series of color prints and study techniques and methods of printing practiced in the master printers ateliers of Paris.

Vincent L. Pass, assistant professor of architectural engineering, has been granted a leave of absence from June 15 to Dec. 4. He plans to begin a series of technical papers on the control of heat gain in buildings through use of various shading devices.

COMMENCEMENT

Summer Term Commencement exercises will be held Saturday, Sept. 5, instead of Monday, Sept. 7, at 2 p.m.

CALENDAR



Friday, May 29

Talk by Dr. Lewis R. Wolberg, dean of the Postgraduate Center for Mental Health, New York, on "The Case for Short-term Psychotherapy," 8 p.m., Room 101 Chambers, sponsored by Division of Counseling and Ritenour Health Center.

Interlandia Folk Dance, 7:30 p.m., Room 302 Engineering "A."

Saturday, May 30

Meditation Chapel Choirs program, 8:15 p.m., Schwab Auditorium.

Sunday, May 31

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Robert Clyde Johnson, dean of the Yale Divinity School, on "The Ministry—Yesterday, Today, and Tomorrow."

Monday, June 1

Faculty Luncheon Club, 12:30 p.m., HUB dining room "A."

Tuesday, June 2

Economics Faculty Seminar, 12:15 p.m., HUB dining room "A." Herbert J. Bickel, economist, Texas-Eastern Transmission Corp. on "An Analysis of Regional Energy Demands: The Northeastern United States."

Ultrasonics Seminar, 1:15 p.m., Room 310 Whitmore. Dr. Paul Cutler, on "Optical Properties of Solids."

Wednesday, June 3

Psychology Lecture, 8 p.m., Room 115 Chambers. Prof. James Deese, psychologist The Johns Hopkins University, on "Associative Structure of English Adjectives."

Thursday, June 4

Physics Colloquium, 4 p.m., Room 117 Osmond. Dr. Lincoln Wollenstein, professor of physics, Carnegie Tech. on "Weak Interactions."

Chemistry Colloquium, 12:45 p.m., Room 310 Whitmore. Prof. T. C. Bruise, Cornell University.

Friday, June 5

Interlandia Folk Dance, 7:30 p.m., HUB ball room.

faculty BULLETIN

Vol. 51, No. 45 May 29, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of Pennsylvania
State University**

Dubnoff award

Ena Dubnoff, instructor in architecture, has received a merit award for the design of a Pasadena, Calif., residence in the Homes for Better Living Award Program sponsored by the American Institute of Architects in cooperation with House and Home magazine.

A total of 31 entries out of 600 submitted were selected for awards by juries of architects, housing industry leaders, and editors. The awards will be presented and the designs exhibited at the annual convention of the A.I.A. in St. Louis, Mo., this month.

Miss Dubnoff's design was made in 1959 while she was a student at the University of Southern California. She came to Penn State in 1963 as instructor.

Speaker's Bureau

The University Student Government is attempting to develop a Speakers Bureau, the first step of which is to provide a directory of members of the faculty who are willing to help USG as speakers or resource persons for groups of students, organized and independent. Through such conversations, NSG believes the student's total college experience will be broadened. Members of the faculty who wish to cooperate in this venture are asked to fill out the form below and return to USG Office, 202 HUB.

Name _____
Topic _____

Ballot forms coming

Voting on retirement benefits

The Employee Benefits Division expects to distribute during the week of June 8 ballot forms by which faculty and staff members will indicate their acceptance or rejection of the benefits of the new retirement law described in the May 22 issue of the Faculty Bulletin.

Each eligible faculty and staff member will receive a personal envelope containing three copies of the official ballot form with a covering letter and a statement showing his approximate costs to repay back contributions on earnings paid to him through May 31, 1964.

Employees who desire to accept the benefits of the new law so that their effective date of coverage is July 1, 1964, must return their signed ballots to the Employee Benefits Division, 304 Old Main Building, by June 15.

Employees may, however, delay as late as December 15, 1965, to make their decision, but the retroactive payment will then include the amount they should have been paying in the meantime.

The ballot form provides a choice between two methods of paying for the back coverage: (1) by lump sum, payable within two months of the effective date, or (2) by payroll deductions spread over a 12-month period beginning two months after the effective date.

If a faculty or staff member has reached earnings of \$4,800 by the end of May, the statement showing his approximate cost will be an accurate statement through 1964. In all other cases, the actual cost will be higher, depending on the employee's effective date of coverage.

Each employee who returns a "yes" ballot will receive subsequently a statement of his actual cost. No payments should be made until the actual cost is determined.

The Employee Benefits Division points out that the new retirement law requires each eligible University employee to return a completed ballot regardless of his choice. You are urged to file your forms in a safe place, if not ready to decide for or against the new provisions, and to make sure they are neither mutilated or destroyed.

Testing meeting

Dr. William E. Colfman, of Educational Testing Service, will talk on the general topic of testing before members of the faculties who are interested in the topic Friday, June 26, at 2:45 p.m. in the HUB assembly hall. After his brief talk, there will be a general discussion on the topic.

Blue Band concert

The final concert of the year for the Blue Band will be given Sunday at 3 p.m. on Pattee Library steps.

James W. Dunlop, assisted by Ned C. Diehl, will conduct the Band and Roy Burus, of New York, percussionist, will be featured in Louis Bellson's "Thundering Drums."

The Band will introduce a composition by George E. Ceiga, associate professor of music, titled, "Chorale and Fugue for Concert Band."

Korea prints

An exhibit of "faces and places," titled "The Character of Korea," is now on display in the HUB gallery and will continue there until June 26. The collection of prints consists of 55 black and white studies depicting Korea's rural and village life through the eye of the camera and has been assembled through the sponsorship of the American-Korea Foundation through arrangements with various art museums, civic centers, and universities.

Opera project

As a class project students of Mrs. Willa Taylor and Samuel Gordon, directors of the Chapel Choir and Meditation Chapel Choirs, respectively, will stage Gian-Carlo Menotti's tragic opera, "The Medium," Sunday and Monday, June 7 and 8, at 8:30 p.m. in Room 117 Carnegie. Faculty and students are invited to attend the performances.

The various roles will be sung by: Jean Marshall, contralto, as Baba; Darlene Bowden, soprano, as Monica; Marc Sabatino, baritone, as Mr. Gobineau; Margaret Schobert, soprano, as Mrs. Gobineau; and Normandie Herritt, soprano, as Mrs. Nolan.

Gordon is musical director, Joyce Gordon is in charge of staging, and Mary Beth Keebler is musical assistant for the performances.

CORRECTION

Dr. Detlev W. Bronk has not, as suggested in last week's Faculty Bulletin, retired as president of the Rockefeller Institute, New York. It was so stated in the story on President Walker's election as chairman of the National Science Board.

Roose nominated for L.A. post

Dr. Kenneth D. Roose, a 44-year-old economist with a background of teaching, research, and government service, has been offered the position as dean of the College of the Liberal Arts.

The appointment is subject to approval by the University's Board of Trustees, which will meet here on June 12-13.

Dr. Roose is presently associate dean of the University for social sciences at the Oakland University, which is affiliated with Michigan State University. He serves additionally as director of the program in business and economics and as professor of economics. If the Board of Trustees approve the appointment, he is expected to begin his new duties on July 1.

Dr. Roose has held teaching posts at Yale University, the University of California at Los Angeles, and Oberlin College, where he was professor of economics before taking the Oakland University post three years ago.

During a leave of absence from Oberlin, he was a senior economist on the President's Council of Economic Advisers in Washington in 1956-57, and from 1952-55 he was a faculty research fellow with the Social Science Research Council. He joined the Oberlin faculty in 1950 after teaching at UCLA.

A native of Kansas, Dr. Roose was graduated *summa cum laude* from the University of Southern California in 1940. His graduate studies were carried out at Yale University, where he received the M.A. degree in 1943 and the Ph.D. in economics in 1948. He was an instructor on the faculty during his doctoral study.

Dr. Roose's research interests include business fluctuations, money and banking, and macroeconomic theory. He is the author of "The Economics of Recession and Revival: An Interpretation of 1937-38," published by the Yale University Press in 1954. He has written many research papers, monographs, and articles, concerned primarily with business cycles.

He is a member of Phi Beta Kappa, Phi Kappa Phi, and Phi Eta Sigma honorary societies, the American Finance Association, the Econometric Society, and the American Economic Association.

Both at Oberlin and in Michigan, Dr. Roose has been active in civic, cultural, and educational organiza-

tions. He currently serves as a member of the Oakland County Community Mental Health Services Board and was formerly a member of the Rochester (Michigan) School Study Committee. He is a consultant in economics to several business firms and was formerly a member of the board of directors of Gilford Instruments Laboratories, Inc., of Oberlin, which produces instruments for hospitals and research laboratories.

Dr. Roose is married and has four children.

Oakland University is located 25 miles north of Detroit in a heavily-populated area. The campus has been built in the last few years, and the university is considered to have one of the outstanding academic programs to be activated in the post-war era.

Immigration

A Policy and Procedure Concerning Immigration Matters has been developed and a copy may be obtained from R. W. Dombrowsky, 304 Old Main, 865-4041.

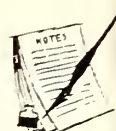
The statement clarifies the responsibilities of individuals and of the University in complying with Federal laws where applicable to students or staff members who are citizens of other countries.

Ray T. Fortunato, director of the department of personnel services-employee relations, and Dr. Donald Ford, acting director of the Office of International Student Affairs, have been designated by President Walker to serve as representatives of the University in signing immigration or visa forms for aliens—for faculty and staff members in Mr. Fortunato's case, for students in Dr. Ford's case. The U. S. State Department has requested the University to designate a person to represent the University in such matters.

The Department of Personnel Services is responsible for determining whether an alien's visa permits him to be employed while in this country. Therefore, before making a binding commitment to employ an alien, the dean or administrative officer will inform the supervisor of the Personnel Records and Procedures Division, R. W. Dombrowsky, of the intent to employ a citizen of another country.

In general, the visa students hold does not permit them to work nor can wives or children of students work. However, students may hold graduate assistantships and if the work is considered supplementary educational experience, the student may under some circumstances be employed.

PERSONNEL MATTERS



Harold I. Tarpley, professor of electrical engineering and director of the Computer Laboratory, will retire July 1 after 41 years as a member of the faculty. In his service, he has taught nearly every course in the electrical engineering offerings and has supervised and directed many graduate research projects. He received the President's Award for Outstanding Teaching in 1961. A decade ago he supervised the design and construction of five analog computers, the building of PENNSTAC, and the completing of the department's digital computer. He was graduated from Kansas State College and received his master's degree from the University of Illinois.

Dr. Wallace E. White, assistant director of the School of Forestry, will retire July 1 after 35 years of service, during which he has taught and been active in student counseling, student placement, and in scheduling, courses, and curriculum. A graduate of the University of Vermont, he obtained a master of science in botany there and in 1929 received the doctor of philosophy degree in botany from Yale. He spent his first two years at Mont Alto and came to University Park in 1931. He will revise a book on the history of forestry education in Pennsylvania.

Evelyn M. Christine, a graduate of Lancaster General Hospital School of Nursing and of Syracuse University with a bachelor of science in nursing, has been appointed assistant professor of nursing education and coordinator of nursing education in Continuing Education. She was for several years affiliated with Lewistown Hospital and was general duty nurse and relief supervisor at George Washington University and Crouse-Irving Hospital Syracuse.

LEAVES

H. Eugene Goodwin, director of the School of Journalism, will be on leave for six months beginning June 15 for research in France and other West European countries, seeking to learn what ideas French people have about the U. S. and the relationship that may exist between these ideas and the information people acquire through the mass media.

Marion R. Deppen, assistant director of agricultural and home economics extension, has been granted a years leave of absence for graduate

work at the University of Wisconsin. He was awarded a W. K. Kellogg Foundation Fellowship for study of cooperative extension administration at the National Agricultural Extension Center for Advanced Study.

Denis Stevens, professor of music, has been granted a leave of absence from Sept. 1 to June 30, 1964, to complete three musical projects involving research in Europe. He hopes to complete an edition of Tudor Organ Music, for the British Academy; an edition of the works of a 16th-century Scottish composer, Robert Carver, for the American Institute of Musicology; and an edition of all the extant 14th-century music in English manuscripts, for the Plainsong and Medieval Music Society. He will also read papers or take part in round-table discussions at the International Musicological Society's triennial convention at Salzburg, Austria, and at the American Musicological Society's national meeting at Washington, D.C.

CALENDAR



Friday, June 5

Interlandia Folk Dancing, 7:30 p.m., HUB ballroom.

Biophysics Seminar, 3:55 p.m., Room 105 Walker. Dr. Thomas Wood, professor of physics, University of Pennsylvania, on "A Model for Bacterial Recombination Based on Irradiation Studies."

Sunday, June 7

Chapel service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, professor of religious studies, on "The Political Right of Religious Dissent."

Varsity baseball, vs. Pittsburgh, 1 p.m.

Blue Band concert, 3 p.m., Pattee Library steps.

Tuesday, June 9

Speech by H. F. Gernert, county superintendent of special education in Lehigh County, 8 p.m., Chapel lounge, on "The Responsibility of the Religious Community to the Mentally Retarded," sponsored by the Penna. Association for Retarded Children.

Wednesday, June 10

Spring Term classes end, 9:55 p.m. Final examinations begin Thursday, continue until Saturday.

Sunday, June 14

Spring Term commencement, 2 p.m., Beaver Stadium. In case of rain, no ceremonies, but diplomas will be distributed at designated points.

EQUAL OPPORTUNITY

The University is an equal opportunity employer and, as such, does not discriminate against any employee or applicant for employment because of race, creed, color, or national origin.

ITEMS OF INTEREST



Articles and Papers

At the Fluids Engineering Conference sponsored by A.S.M.E., in Philadelphia, papers by the following members of the Ordnance Research Laboratory or aeronautical engineering department: J. W. HOLL, "The Cavitation Research Facilities of the Ordnance Research Laboratory"; E. J. RODGERS, "Vorticity Generation of a Body of Revolution at an Angle of Attack"; MAURICE SYVIL, "Measurement of Unsteady Thrust in Turbomachinery."

At the 64th annual meeting of the American Society for Microbiology in Washington, D. C., papers by L. N. ZIMMERMAN, J. C. McNEIRNEY and E. S. LINDSIROM, E. H. LUDWIG and W. J. IGLEWSKI, E. H. LUDWIG and BARBARA HOTHAM, J. F. CONE and K. H. WONG, and CARL ABRAMSON and K. H. WONG, and CARL ABRAMSON and HERMAN FRIEDMAN, of the Ogontz Campus.

At the 55th Annual Convention of the Speech Association of the Eastern States, papers by J. K. BRILHART on "The Contributions of Field-Like Studies in Group Communications"; VICKI O'DONNELL STUPP on "The Image of Richard Nixon."

At the annual convention of the American Ceramic Society in Chicago, papers by the following: W. O. WILLIAMSON, SUSUMA OKUDA, and F. A. FARUQUE; W. O. WILLIAMSON with R. V. KOLGORI; V. S. STUBICAN, with T. BARRY; F. A. HUMMEL with J. F. ARGYLE; W. R. BUESSEM with F. F. LANGE; BUESSEM with P. A. MARSHALL, JR.; DELLA ROY; and ARNULF MEAN.

At the Ninth Annual Convention of the International Reading Association in Philadelphia, papers by MYRON COULIER, elementary education; A. W. HEILMAN, elementary and special education; and J. F. KERFOOT, special education.

BELASCO, SIMON, Romance languages, "Fagmemics and Transformation in Linguistics Analysis" at the 17th University of Kentucky Foreign Language Conference.

BLACKADAR, A. K. and PANOFKY, H. A., meteorology, "Recent Soviet Research in Atmospheric Turbulence," in the February issue of the Bulletin of the American Meteorological Society.

BOUCHER, R. V., biochemistry, COWAN, J. W., animal nutrition, and BISS, E. G., poultry science, "Riboflavin Utilization by a Mutant Strain of Single Comb White Leghorn Chickens," in two parts in the January issue of Poultry Science.

DAVIDS, NORMAN, engineering mechanics, SHULTS, SAM, civil engineering, and L. J. MATHERS, "Exact Equations of River Form," at the 45th annual meeting of the American Geophysical Union.

DODDS, MARY L., foods and nutrition, "Protein and Lysine as Factors in the Cariogenicity of a Cereal Diet," in the February issue of the Journal of Nutrition.

DELEVIE, DAGOBERT, German, "Klopstock und de Erinnerung der Deutschen Dichtersprache im 18. Jahrhundert" in the March

issue of Monatshefte, publication of the University of Wisconsin.

LEBBINGHAUS, E. A., German, "Two Gothic Etymologies," in Modern Language Notes. — "Gothic ABR," in the Journal of English and German Philology, along with two reviews.

— "The Gothic Character," in the Studies in Germanic Languages and Literatures in Memory of Fred O. Nolte.

— research report on "Lay of Hiltibrant," in the Soviet Academy of Sciences periodical.

EBBUGH, PAUL, Engineering, "Evaluation of R and D Performance from the Vista of the University," at the Ninth Institute on Research Administration, in Washington.

ENGASS, ROBERT, art and architectural history, on Baccio in the Burlington magazine.

— "Aspetti iconografici nell'arte romana del tardo seicento: rappresentazioni lignate e raggioni determinate" at the Istituto di Storia dell'arte of the University of Pavia.

FLAY, J. C., philosophy, "What is Philosophy," at the University of Southern California.

FREAR, D. E. H., agricultural entomology, with H. E. ENOS, JR., "Determination of Residues of O, O Dimethyl-S-(N-methylcarbamoylmethyl) Phosphorodithioate (Dimethoate) in Fruits and Forage," in the March-April issue of Agricultural and Food Chemistry.

EL-KARH, A. B., electrical engineering, with E. R. REYNOLDS, a paper at the Symposium on Electron Beams, at Boston.

— three chapters in the McGraw-Hill Yearbook of Science and Technology, 1965, on "Recent Developments in Electron Beam Machining," "Electron Beam Welding" and "Electron Beam Melting Zone Refining."

GUSTI, J. P., resident instruction, "Do Teachers for Professional Schools Require Training in Teaching," in the Academic Round Table section of the Journal of Higher Education.

GOLDBERG, M. H., C.G.L.E., "Library Services to Adults—the Educational Challenge of Technological Change," in the May issue of The Pennsylvania Library Association quarterly magazine.

— "The Faculty Member and Staff Morale," in the Spring issue of "College and University."

GRIENLAW, P. S., management, "Management Development: A Systems View," in Personnel Journal.

HAMILTON, R. H., botany, and R. P. ZIMMERER, "The Incorporation of P₂ into the Phospholipids of growing oat coleoptiles," at the Eastern Regional Meetings of the American Society of Plant Physiologists.

HANDBMAN, A. H., and DAVIS, L. G., meteorology, "Characteristics of Thunderstorms over Central Pennsylvania," at the meeting of the National Cloud Physics association.

HEALY, G. W., metallurgy, with J. C. SCHOTT-MILLER, "The Chromium Oxide-Silica System at Low Oxygen Pressures" in the April issue of the Transactions of the Metallurgical Society of the American Institute of Mining and Metallurgical Soci-

- ety of the American Institute of Mining and Metallurgical Engineers.
- HOSTETTER, J. A., sociology at Ogontz, "Persistence and Change Patterns in Amish Society," in the April issue of *Ethnology*.
- HOWELL, B. F., Jr., geophysics, "Model Studies for Focal Depth Determination at Near-Source Stations" and "On the Inadequacy of Paper Recording of Seismic Data," before the annual meeting of the American Geophysical Union.
- HUNGERFORD, ARTHUR, speech, "Studio and Control Equipment," a chapter in the book, "Understanding Television," edited by Robert L. Hilliard.
- JOHNSTONE, H. W., JR., philosophy, "Can Philosophical Arguments be Valid?" in the December issue of *Bucknell Review*.
- "Some Reflections on Argumentation," in *Logique et Analyse*.
- KHISTER, ORVILLE, accounting, "The Incan Quipu," in the April issue of *Accounting Review*.
- KLAUS, E. E., petroleum chemistry, "Effect of Some Physical and Chemical Properties of Lubricants on Boundary Lubrication" at the Gyro Spin-Axis Ball Bearing Symposium, at M.I.T.
- KOCHANOWSKY, B. J., mining, with Amid Mookerjee, "An Economic Study of the Power Consumption of Stripping Shovels," at the International Symposium on Statistics Operation Research and Computer Applications in the Mineral Industries, at the Colorado School of Mines.
- "Developments of Blasting Techniques in Open Cast Mining and Quarrying" at the Opencast Mining, Quarrying and Alluvial Mining Symposium to be held in London, England, in November.
- LAKSHMINARAYANA, B., aeronautical engineering, "Extension of Lifting-Line Theory to a Cascade of Split Aerofoils," a technical note in the May issue of the *AIAA Journal*.
- "Effects of a Chordwise Gap in an Aerofoil Span in a Free Stream," in the April issue of the *Journal of the Royal Aeronautical Engineering*.
- MATH, E. L., art education, a foreword to the book by E. W. LINDERMAN and D. W. HERBERHOLZ, published by Wm. C. Brown Co., "Developing Artistic and Perceptual Awareness."
- MATHER, W. G., sociology, "Religious Attitudes in the Small Church," in the April 11 issue of the *Information Service Bulletin of the Bureau of Research and Survey of the National Council of the Churches of Christ in the U. S. of America*.
- MCCARTHY, R. D., dairy science, "Mammalian Metabolism of Straight-chained Saturated Hydrocarbons," in *Biochimica et Biophysica Acta*, Elsevier Publishing Co., Amsterdam.
- MEATH, R. P., horticulture, with LANPHEAR, F. O., "Influence of Endogenous Rooting Factors and Environment on the Seasonal Fluctuation in Root Initiation of Selected Evergreen Cuttings," in the proceedings of the American Society for Horticultural Science.
- MILLS, W. R., plant pathology, "Pennchip, a New Potato Variety Resistant to Late Blight and Scab with Superior Chipping Quality," in the February issue of the *American Potato Journal*.
- MOCK, E. J., finance, "The First Half Century with the Mortgage Industry," in the April issue of *The Mortgage Banker*.
- MURR, L. E., engineering mechanics, "Mechanism of Plant-Cell Damage in an Electrostatic Field," in the April 4 issue of *Nature*.
- NAGNEY, C. H., accounting division, "Budgetary Accounting Using Computer and Ram File at The Pennsylvania State University," at the Ninth Annual College and University Machine Records Conference at Texas A. and M.
- NEUBERT, V. H., engineering mechanics, "Dynamic Absorbers Applied to a Bar That Has Solid Damping," in the April issue of the *Journal of the Acoustical Society of America*.
- NICHOLS, J. R., WHITE, J. M., and KESLER, E. M., dairy science, and ZIEGLER, J. H. and WATKINS, J. L., animal industry, "Production and Carcass Characteristics of Holstein-Friesian Bulls and Steers Slaughtered at 800 or 1,000 Pounds," in the Feb. issue of *Journal of Dairy Science*.
- NIEBEL, B. W., and MOSS, C. R., industrial engineering, a Selector Guide for Primary Forming Processes by the U. S. Army Material Command.
- OSIPOW, S. H., Division of Counseling, with GROOMS, R. R., "Comparisons Between Cultural and Individual Associative Response Hierarchies," at the Eastern Psychological Association meeting.
- PALERMO, D. S., psychology, with G. B. FLAMER and J. J. JENKINS, "Association Value of Responses in the Paired-Associate Learning of Children," in the April issue of the *Journal of Verbal Learning and Verbal Behavior*.
- PANOSKY, H. A., with R. LYONS and S. WOLASTON, "The Critical Richardson Number and Its Implications for Forecast Problems," in the April issue of the *Journal of Applied Meteorology*.
- PEIRCE, T. E., Ordnance Research Laboratory, with A. F. LEHMAN, "The Water Tunnel as a Research Tool," in the May issue of *Astronautics and Aeronautics*.
- PRAKKEN, D. W., classical languages, "The Use of the Language Laboratory," in the April issue of *The Classical World*.
- PRYBYLA, J. S., economics, "Soviet and Chinese Economic Competition within the Communist World," in the April issue of *Soviet Studies*, published by the University of Glasgow, Scotland.
- RODGERS, E. J., aeronautical engineering, Ordnance Research Laboratory, "The Neutral Point in Stability and Control Analysis," at the American Institute of Aeronautics and Astronautics.
- RODGERS, A. D., geography, "Coking Coal Supply: Its Role in the Development of the Soviet Steel Industry," in the April issue of *Economic Geography*.
- ROY, RUSTUM, Materials Research Lab., "Function of Analysis in the Systematic Characterization of Solid State Materials," at a National Bureau of Standards Analytical Chemistry Division Colloquium.

faculty BULLETIN

Vol. 51, No. 46 June 5, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Adviser's award



Breneman, left, and Baker

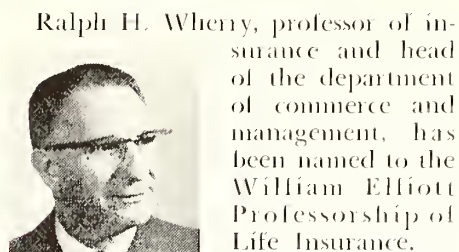
John W. Breneman, professor of engineering mechanics, has been granted the 1964 Adviser's Award of the College of Engineering. The Award is given annually by The Pennsylvania State University Engineering Association to "recognize members of the faculty who perform outstanding service as an adviser to undergraduate students."

Breneman, a member of the faculty since 1922, received the award during College of Engineering Honors Day activities June 2. Previous winners were Clifford B. Holt, Jr., professor of electrical engineering, in 1962, and Calvin G. Reen, professor of civil engineering, last year.

William Baker, president of the Association and in charge of the photogrammetric section of Michael Bak-

(Continued on page four)

Chair established



Wherry

Ralph H. Wherry, professor of insurance and head of the department of commerce and management, has been named to the William Elliott Professorship of Life Insurance. Establishment of the new position announced last Friday, was made by the Philadelphia Life Insurance Company to honor William Elliott, chairman of the Board of the Company.

The permanently endowed chair will be funded by the company, members of its Board of Directors and friends, and the William Elliott Educational Foundation. Also included is a scholarship program under which graduate students working in the field of life insurance will be named as Philadelphia Life Insurance Scholars and be provided financial assistance.

A bronze medallion, designed by sculptor Philip Kraczkowski, was made for the occasion, and it features the Nittany Lion on one side.

Wherry has been a member of the faculty since 1947 and obtained both bachelor's and master's degrees from Penn State. He is a Chartered Life Underwriter and an honorary Life Member in the Pennsylvania Association of Insurance Agents.

Elliott attended the Naval Academy and Drexel Institute of Technology. He entered the life insurance field in 1929 as an agent and became a general agent for the company he now heads in 1934.

ALUMNI FUND

Contributions to the 1964 Alumni Fund have established new records in total amount contributed, \$318,521.99, and in number of contributors, 12,184, surpassing last year's totals as well as those of 1955, the Centennial Year.

APPRECIATION

Norman C. Miller, who won a 1964 Pulitzer Prize for spot news reporting, and who was graduated from Penn State in 1956 with a degree in journalism, has written to President Walker, as follows in part:

"I wanted to tell you that I owe a great deal to Penn State. Many people at the University helped in preparing me for the path that has led to the Pulitzer Prize. My education at Penn State is an experience I cherish. As time passes, I realize that the values I came to appreciate while at the University formed a wellspring that I continually draw on."

Miller is a member of the New York staff of the "Wall Street Journal."

Commencement

Faculty members who will participate in Commencement Exercises Sunday at 2 p.m. in Beaver Stadium should plan to leave for the Stadium to allow plenty of time because an estimated 7,000 cars will be making the same trip.

Those who will have identification cards for their cars should use Park Avenue and Farm Road to the parking area adjacent to the Stadium where the only reserve parking space will be available.

The decision as to whether the exercises will be held at the Stadium, in case of inclement weather, will be made Sunday morning. If the weather is clear at 8 a.m., no announcement will be made; if the weather is questionable, a weather prediction will be obtained at 10 a.m. and the decision on holding the exercises outdoors will be made known to the public via radio and television. Traffic will be maintained in a pattern similar to that in force for football games, one-way traffic toward the Stadium on Park Ave. and University Drive from 12:30 p.m. to 2 p.m. Pedestrian traffic only will be permitted on Curtin Road from Shorthidge Road to the Stadium.

If rain interferes, diplomas will be distributed at specified facilities on the campus, depending on the college in which the student was enrolled, according to the schedule reported in last week's Faculty Bulletin. There will be no formal ceremonies.

Approximately 3100 degrees will be awarded at the ceremony. Commissioning programs for graduating seniors who will be granted commissions in the military services will be held Sunday at 8:30 a.m. in Schwab Auditorium. Dr. J. R. Rackley, vice president for resident education, will be the speaker and the oath will be administered by the respective heads of the three R.O.T.C. units.

Children's dramatics

Two classes in creative dramatics for children will be offered by the Theatre Arts department during the Summer Term and children who have been in grades three, four, five, and six are eligible to attend.

Robert Reifsnider, associate professor of theatre arts, will teach the classes, and anyone wishing to enroll a child should do so by mail to him, addressed to Room 202 Schwab Auditorium, University Park, Pa.

Classes will meet Monday, Wednesday, and Friday for six weeks, beginning July 6. Children who were in grades three and four will be in a section meeting from 9:35 to 10:35 a.m. in the Little Theatre, Old Main. Children who were in grades five or six will be in a section meeting from 11:10 a.m. to 12:10 p.m. Enrollment is limited.

SENATE MINUTES



Meeting of June 2, 1964

The University Senate met at 3:55 p.m. on Tuesday, June 2, 1964 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the May 5, 1964 meeting were approved as printed in the *Faculty Bulletin* for May 15, 1964. Two hundred six senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Neal Riemer (Elton Atwater), G. H. Albright (M. W. Isenberg), Rose Cologne (Charlotte Churaman), R. G. Cunningham (C. Birnie), Paul Ebaugh (E. C. Shuman), M. R. Fenske (Dorothy Quiggle), F. T. Hall, Jr. (K. E. Hartz), E. L. Keller (F. B. Fischer), Herberta Lundegren (A. L. Harnett), Lucille Magnusson (Patricia Seni), Joseph Marin (L. W. Hu), D. H. McKinley (W. M. Hench), J. R. Mentzer (D. S. Pearson), B. W. Niebel (A. B. Draper), F. W. Peikert (H. D. Bartlett), C. G. Reen (J. B. Nesbitt), Antoinette Valentine (Chauncey Morehouse), A. W. VanderMeer (K. H. Wodtke), A. H. Waynick (W. J. Ross), M. A. Williamson (Sam Shulits), W. P. Winter (J. W. Siphon), and G. F. Wislicenus (J. W. Holl).

New Senators

A letter was read from Jules Heller, Dean of the College of Arts and Architecture, stating that P. F. Hallock had been elected to fill the unexpired term of W. H. Hill (1964-1965) who has resigned from the University.

A letter was read from Ossian MacKenzie, Dean of the College of Business Administration, stating that Judith Stoye has been elected to fill the unexpired term of R. M. Colwell (1964-1965) deceased.

A letter was read from Ben Enwema, Dean of the College of the Liberal Arts, stating that H. J. O'Brien would represent R. C. Maloney for the Summer Term, 1964.

The following letter from President Eric A. Walker was read:

As you know, the Senate at its meeting on May 5 rejected the report of the Committee on Educational Policy which recommended, among other things, that a bachelor of arts or a bachelor of science degree "be offered only by the College in which the department representing the major field is located."

The defeat of this report of course included the rejection of all of its ancillary provisions, one of which I should like to leave for further consideration.

I believe the University needs a clear definition of the differences between a B.A. and B.S. degree.

When I ask our Board of Trustees to approve a new program leading to a particular degree, they have a right to ask what guidelines we have for the degree.

I should like to ask the Educational

Policy Committee to formulate for the Senate's consideration a statement explaining the distinctions between the two degrees.

The following letter from M. E. John, Chairman of the Senate Committee on Continuing Education Policy was read:

In the statement on University policy on continuing education approved by the Senate at its meeting March 3, the following sentence is included:

"Course content, instructional assignments, teaching methods and all matters pertaining thereto are the responsibility of the colleges."

To add to the clarity of the sentence, the word "academic" has been inserted preceding the word "matters."

REPORTS OF STANDING COMMITTEES

H. E. Goodwin, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A" regarding the letter from B. F. Howell and its proposal to provide room for more new students to be admitted for the Fall Term. He moved adoption of the recommendation stated in the report as follows:

Resolved, that all units of The Pennsylvania State University concerned with student leaves of absence from the University Park Campus be mindful of the desirability of arranging such leaves for the Fall and Winter rather than the Spring and Summer Terms.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed in three sections. Section I had been distributed with the agenda as Appendix "B." Section II had been distributed by mail, and Section III had been distributed at the meeting. Mr. Shelley moved adoption of Items IA and IB in each of the three sections. The motion was seconded. Ossian MacKenzie referred to Item 630 in Section II (Major in Agricultural Business and Management). He stated that the College of Business Administration was not interested in offering a Major in Agricultural Business and Management but that they did wish to cooperate with the College of Agriculture in working out a mutually satisfactory arrangement. His College would like to reserve the right to appear before the Senate Courses of Study Committee or the Senate if a satisfactory solution cannot be reached. The motion as made by Mr. Shelley was passed. The complete report is on file in the office of the secretary.

F. R. Querc, Chairman of the SENATE COMMITTEE ON MILITARY INSTRUCTION, presented the report which had been distributed with the agenda as Appendix "C." Item I, New "S" RULES and Item II, THE BASIC ROTC PROBLEM. He moved that Item I, New "S" Rules, be adopted, as follows:

S-1. A male student with freshman standing who entered the University Park Campus or a Commonwealth Campus where Basic ROTC is offered, prior to the Summer

Term of 1963 and extending through the Winter Term of 1964, must complete three terms of Basic ROTC as one condition to be met for graduation.

S-3. A male student entering the University as a freshman beginning with the Spring Term 1964 has the option of choosing Basic ROTC as an elective, with the scheduling opportunities as shown in the catalog for the first 6 terms of various curriculums.

S-4. Basic ROTC requirements for Associate Degree Program Students who transfer to a Baccalaureate Degree Program, and students who are readmitted to the University as Baccalaureate Degree candidates will be in accordance with the appropriate foregoing rule applicable at the time of admission to the Baccalaureate Program.

S-5. Credits earned in ROTC courses apply toward graduation requirements for the Baccalaureate Degree according to the policy of the student's college.

S-6. A student who is accepted and enrolled in an Advanced Course in Army or Air Force ROTC or the four-year Navy ROTC course shall be required to complete that course, including the acceptance of a commission, if offered, as a prerequisite for his being graduated from The Pennsylvania State University, unless excused from this requirement for cogent reasons by: (a) pertinent Armed Forces Regulations, (b) the President or the Senate Committee on Military Instruction of the University.

S-7. A student who has served on active duty with a United States Military Service may have such service evaluated by the pertinent Service Department in order to ascertain his accreditation of Advanced Military standing.

S-8. Enforcement of these regulations shall be the responsibility of the student's dean, department head and the Dean of Admissions.

The motion was seconded. W. S. Smith moved that Rule S-6 be removed temporarily and referred back to the Educational Policy Committee for study. The motion was seconded and defeated by a showing of hands.

There was additional discussion on the proposed changes. President Walker stated that the Morrill Land-Grant Act required "military tactics" and it might be possible that the Trustees would still require it to get a degree even though the faculty does not require it academically. He will raise this question with the Trustees and report back to the Senate. The motion to adopt the new "S" rules was passed.

Mr. Querc then presented Item II of the report, THE BASIC ROTC PROBLEM. He moved adoption of the following recommendation:

In order to offer the student an opportunity to schedule basic ROTC, clarification or modification of existing policies is recommended so as to insure a workable, compatible and successful ROTC program on the campus of The Pennsylvania State University.

The motion was seconded and passed. Item II. The Basic ROTC Problem is as follows:

The President's Staff and Council of Academic Deans issued a policy statement on 15 July 1963, which stated that

"the University Catalog for Baccalaureate Programs will show Basic ROTC in the first two years in listing various curriculums with the word "voluntary" in parenthesis after Air or Army and the course number." In October, 1963, the Senate of the University approved a motion which stated that "the range of credits required for graduation from 12 terms Baccalaureate Program is 120-144 credits. All programs must make provisions for the listing of Basic ROTC. Credits earned in ROTC courses may be applied to graduation requirements at the option of the college."

A statement of the Senate Committee on Educational Policy dated 1 October, 1963, reads as follows:

"The reduction in the upper limit for 12 term Baccalaureate programs is to bring Senate policy into agreement with the practices recommended by the Senate Courses of Study Committee, the Administrative Policy on ROTC issued on 15 July, 1963, by the President's office, and the manner in which basic ROTC will be listed in the next University Bulletin. In its next issue of "Standards and Practices" the Courses of Study Committee will specify that departments are not to add to their academic requirements through the use of credits previously used for ROTC nor rearrange programs in any manner which would preclude a student from exercising his option to take basic ROTC."

A review of the University Catalog for Baccalaureate Programs 1964-65 discloses that curriculums have been tailored to conform to the 120-144 credit requirements for graduation. Analysis of curriculum credit changes indicates that in most cases the reduction in credit requirements for graduation has been exactly six—the number of credits previously required for basic ROTC. In some instances this compression and subsequent realignment of curriculums has resulted in a structure that precludes voluntary participation in ROTC training by establishing term course and credit requirements which make it impossible to schedule ROTC courses within the allowable credit load. It is believed that the actions of the Senate in October, 1962, and again in October, 1963, were not intended to impose such stringent restrictions upon the young men who choose to volunteer for basic ROTC. In order for the University to have an effective Officers Training Program, entrance into the basic ROTC courses must be made as accessible as possible.

If the student is not to be precluded or discouraged from taking ROTC then:

- (1) He must be able to schedule basic ROTC during the first six terms without generating a scheduling problem or creating an overload situation.
- (2) As a minimum, 6 basic ROTC credits should apply toward a Baccalaureate degree credit requirement.

The basic ROTC is the heart of the Military Instruction Program. Through the two-year basic course, the student is afforded an opportunity to decide whether to continue on in the advanced ROTC program, be commissioned as an officer to serve on active duty either to satisfy a military obligation

or to follow the vocation of a military career. Denied initial input of raw material, the Military Science Departments will be unable to accomplish their assigned missions.

Recommendation:

In order to offer the student an opportunity to schedule basic ROTC, clarification or modification of existing policies is recommended so as to insure a workable, compatible and successful ROTC program on the campus of The Pennsylvania State University.

The complete report is on file in the office of the secretary.

J. D. Ridge, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting. This report, which had been approved by President Walker, is as follows:

Membership on Standing Committees—1964-1965:

Academic Standards: Broderick, C. B.—Chairman; Pasto, J. K.—Vice Chairman; Campbell, W. P., Cramer, M. B., Ford, D. H., Hyslop, F. E., Lumley, J. L., Magnusson, Lucille, Mallette, M. F., Pashek, R.D., Schmalz, R. F.

Admissions: Bradley, J. F.—Chairman; Coulter, L.—Vice Chairman; Burcik, E. J., Decker, J. D., Love, G. M., Polakowski, K. J., Powers, W. H., Riebel, L. Jeanne, Spieth, R. G., Thaden, E. C., Benreuter, R. G., ex officio.

Athletics: Wherry, R. H.—Chairman; Perez, L. J.—Vice Chairman; Hudson, G. R., Keith, M. C., Niebel, B. W.

Calendar and Class Schedule: Read, H. J.—Chairman; Nelson, G. K.—Vice Chairman; Murray, R. K., Reifsnnyder, R. D., Weidhaas, E. R., Miller, J. E., ex officio; Dyer, Sue (Student), Linder, Larry (Student).

Committees: Ridge, J. D., Chairman; Schrader, W. J., Vice Chairman; Ayres, Ruth W., Bortree, A. L., Brewster, R. W., Edgar, E. E., Fishburn, Hummel, Gray, A. R., Marin, Joseph, Wartik, Thomas.

Continuing Education Policy: John, M. E., Chairman; Hall, F. T., Jr., Vice Chairman; Coombs, F. M., Ferrara, W. L., Hager, C. F., Knoll, Marjorie, Krall, H. L., Schanz, J. J., Jr., Thevas, D. G., Waters, R. H., Weisman, W. R., Keller, E. L., ex officio, Patton, T. H., ex officio.

Courses of Study: Saylor, R. B., Chairman; Griffiths, J. C., Vice Chairman; Deno, N. C., Free, G. J., Harris, Dale, Morgan, Winona, Swope, R. E., Valentine, Antoinette, Walters, W. H., Weeden, H. A., Rackley, J. R., ex officio, Schilling, H. K., ex officio.

Educational Policy: Palladino, N. J., Chairman; Magner, T. F., Vice Chairman; Bartoo, J. B., Brandow, G. E., Cook, F. H., Henderson, Grace, Lawther, J. D., Palmer, H. B., VanderMeer, A. W., Walker, D. E., Wilson, W. H., Rackley, J. R., ex officio.

Faculty Affairs: Pendered, N. C., Chairman; Cunningham, R. G., Vice Chairman; Ayoub, R. D., Fletcher, P. W., Freund, E. H., Houghton, Dorothy, Lewis, P. F., Smith, W. S., Stoye, Judith, Watkins, D. J., Zimmerman, L. N.

Library: Lancaster, O. E., Chairman; Dickson, H. E., Vice Chairman; Albinsky, H. S., Blackadar, A. K., Eiche, R. E., House, F. W., Lundegren, Herberta, Maw, A. J. G., Melton,

A. W., Jr., Pollard, E. C., Rigby, P. H., Schilling, H. K., McComb, R. W., ex officio, Osborn, F. E., ex officio, Rackley, J. R., ex officio.

Military Instruction: Querc, E. R., Chairman; Williams, A. L., Vice Chairman; Hallock, P. F., Hassler, W. W., Kjedgaard, W. L., Kozak, A. V., Ludwig, E. H., O'Hara, J. J., Thompson, S. E., Wright, H. D., Barnett, Charles, ex officio; Glenn, H. R., ex officio, Richie, E. B., ex officio, Schmidt, H. E., ex officio.

Research Policy: Almquist, J. O., Chairman; Mueller, E. W., Vice Chairman; Fenske, M. R., Gorlow, Leon, Klein, P. S., Mitzel, H. E., Raver, L. F., Ray, Elizabeth, Richards, M. D., Stahl, C. D., Stull, G. A., Osborn, E. F., ex officio.

Rules: Whisler, B. A., Chairman; Buck, R. C., Vice Chairman; Carnahan, F. L., Jones, R. G., Benreuter, R. G., ex officio, Goas, T. S., ex officio.

Scholarships and Awards: Durant, Della, Chairman; Bissy, L. T., Vice Chairman; Chomicky, Y. G., Kahan, T. K., Keeney, P. G., Lethbridge, B. B., Lovett, P. B., Schraer, Harald, Iesi, A. F., Young, Philip.

Student Affairs: Maloney, R. G., Chairman; Thomas, W. L., Vice Chairman; Coile, C. G., McCormick, B. W., Olson, Gilma, Rindone, Guy, White, H. A., Benreuter, R. G., ex officio, Kniffin, F. W., ex officio. Novak, Benjamin J., president, undergraduate Student Government, ex officio, Committee, Julie, president, Association of Women Students, ex officio.

Student Affairs Subcommittees

Academic Honesty: Hyslop, Lois B., Chairman, Carnahan, F. L., Vice Chairman; Shobaken, B. R., Miller, Bruce (Student), Saffren, Rena (Student)

Organization Control: O'Brien, H. J., Chairman; Black, Alex, Vice Chairman; Miller, E. L., Kefford, Carol (Student), Klein, Don (Student), Donovan, G. L., ex officio.

Discipline: Rindone, Guy, Chairman; Walmer, J. C. (Other members of committee as provided for under Article II, Sec. 1, o-3 of Senate By-Laws.)

NOTE: All committees assume duties immediately following Commencement Day, June 14, 1964, (Article II, Sec. 3 of Senate By-Laws).

[The Senate Minutes will be concluded in next week's issue of the Faculty Bulletin.]

CALENDAR



Sunday, June 14

Spring Term Commencement, 2 p.m., Beaver Stadium. In case of rain, diplomas distributed at designated points.

Thursday, June 18

Summer Term Orientation program begins. Alumni Class Reunions begin.

Friday, June 19

Summer Term registration.

Sunday, June 21

Chapel Service, 9 a.m., The Chapel. The Rev. Richard E. Wentz, associate director, U.C.A.

Monday, June 22

Summer Term classes begin, 8 a.m.

THE ARTS



pavilion theatre

Mesrop Kesdekian, who was guest director for the Pavilion Theatre production during the Spring Term of "Thieves Carnival," will be director for the first summer production, "The Typists and the Tiger," which opens June 23.

Kesdekian, one of three directors this summer, is a Penn State graduate and has had many outstanding accomplishments in the theatre. He recently directed Helen Hayes in a U. S. State Department tour of "The Skin of Our Teeth."

Kesdekian will share directing honors with Leon B. Stevens and Alfred Leberfeld, veteran actors familiar to summer theatre goers at Pavilion Theatre. Stevens will direct "Man and Superman," and "Anastasia" and Leberfeld will direct "Hotel Paradiso" and "A Thousand Clowns."

Season tickets for the five plays are still available and may be purchased at the Pavilion Theatre Box Office after June 15. No "First Nighter" series tickets remain but Series B books are available. Reservations for single plays will be accepted at the Pavilion Theatre box office beginning June 15.

"The Typist and The Tiger," are two one-act successes by Murray Schisgal and are comedy.

The actors in residence this year will include, in addition to Stevens and Leberfeld, Lydia Bruce and Max Gulack, well known to Pavilion Theatre also, and Jane Groves and Constance Dix, two newcomers.

Swimming

Registration for summer games and swim classes for children and swimming for adult women will be held Tuesday, June 23, from 1 to 2 p.m. in White Hall main lobby. The children's swim classes, which have become so popular, must be restricted to children of University faculty and administrative staff, but games classes are open to area youngsters.

The games and swimming classes are offered free by the College of Health and Physical Education and the program is under the direction of Della Durant, associate professor of physical education.

Enrollment is limited in all classes so acceptance will be granted in order of registration, which must be done in person. If a parent does not accompany the child, it will be necessary for the child to bring a form signed by his parents to the first class period. No registration will be accepted by phone.

Games—first, second, third, and fourth grade children, Wednesdays, 9:45-10:45 a.m., July 1 to Aug. 19.

Swimming, beginners—boys and girls 8-12 years; minimum height, 46 inches; for those who cannot swim or are not safe in deep water. Tuesdays and Thursdays, 12:15-1:15 p.m., June 25-Aug. 20. Another section, 1:15-2:15 p.m., same dates.

Swimming, adult women—any level, 18 years of age or more, Tuesdays and Thursdays, 2:15-3:15 p.m., June 25-Aug. 20.

Swimming, intermediate - advanced—boys and girls 8-12 years; capable of swimming in deep water minimum of 75 yards; Tuesdays and Thursdays, 3:15-4:15 p.m., June 25 to Aug. 20.

Swimming, synchronized—for girls only, 12-15 years, able to swim in deep water 100 yards and can swim basic strokes; Tuesdays and Thursdays, 4:15 to 5:15 p.m., June 25 to Aug. 20.

ADVISER'S —

(Continued from page one)

er Associates, engineers, presented the award to Breneman. The ceremonies also included announcement of the many honors and awards granted to students and faculty members during the year.

Breneman received his bachelor's degree from Penn State in 1922 and the degree of civil engineer in 1929. He was appointed instructor in the department of mechanics and materials of construction in 1922, assistant professor in 1930, and professor of engineering mechanics in 1945. He was in charge of the Engineering Defense Training program in 1940 and he supervised more than 200 classes in 195 cities in the State. In 1960 he received the University Citation for Excellence in Teaching.

Library hours

Pattee Library will observe the following schedule during the Summer Term:

June 13 to June 21, 1964

Sunday Closed
Monday-Friday 8:00 a.m.-5:00 p.m.
Saturday 8:00 a.m.-12:00 noon

June 22 to Sept. 3, 1964

Sunday 2:00 p.m.-10:00 p.m.
Monday-Friday 7:50 a.m.-10:00 p.m.
Saturday 7:50 a.m.-5:00 p.m.
(Saturday, July 4 CLOSED)

Sept. 4 to Sept. 22, 1964

Sunday Closed
Monday-Friday 8:00 a.m.-5:00 p.m.
(Monday, Sept. 7 CLOSED)
Saturday 8:00 a.m.-12:00 noon

Effective Sept. 23, 1964

Sunday 2:00 p.m.-10:00 p.m.
Monday-Friday 7:50 a.m.-10:00 p.m.
Saturday 7:50 a.m.-5:00 p.m.

faculty BULLETIN

Vol. 51, No. 47 June 12, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Trustee elections

Six of seven trustees were re-elected to the Board in elections last week by delegates of agricultural and industrial societies and by alumni. Alumni balloted by mail and results were announced at the meeting of the Board Saturday.

Re-elected by agricultural and industrial societies were Sen. Albert E. Madigan, of Towanda; Charles E. Oakes, Allentown; Roger W. Rowland, New Castle; and J. Lewis Williams, Uniontown.

Alumni returned George H. Deike, Jr., of Pittsburgh, and William D. Harkins, Philadelphia, and elected Michael Baker, Jr., Rochester, to replace James B. Long, of Blue Bell, president emeritus of the Board. Baker is a 1936 graduate with a bachelor of science in civil engineering. He organized his own consulting firm at Rochester in 1940 and the firm has become one of the largest engineering organizations in the world.

Pavilion theatre

Two one-act comedies, "The Typists" and "The Tigers," by Murray Schisgal, will open the summer program of the Pavilion Theatre Tuesday, June 23, with two newcomers to the resident company, Jane Groves and Robert Barend.

Season tickets for the five summer productions remain on sale at Pavilion Theatre box office.

Mesrop Kesdekian, Penn State graduate who has directed many successful productions in Reading, Pa., as well as in other cities, will be director for the opening production.

Teaching awards

Dr. Tien-Hsi Cheng, professor of zoology, Dr. Edward J. Nichols, professor of English composition, and Dr. Wallace E. White, professor of wood technology and assistant director of the School of Forestry, were honored at Commencement Exercises last Saturday with the presentation of the Christian R. and Mary F. Lindback Award for Distinguished Teaching.

Each received a plaque and a check for \$1,000.

Dr. White, who retires this month as professor emeritus of wood technology, has been a member of the faculty since 1929, teaching initially at the Mont Alto Campus. He has been assistant director of the School of Forestry since 1959.

Dr. Nichols came to Penn State since 1928 and his elective course in fiction writing has been popular with two generations of students. His books include "Toward Gettysburg: A Biography of General John F. Reynolds" and "Zach Taylor's Little Army." He is also the author of two novels published earlier.

Dr. Cheng is a native of China, being naturalized in 1955. He came to Penn State in 1952 from the University of New Hampshire, and had previously served on the staff of the United Nations and on the faculty of Lingnan University, Canton, China. He has also taught at colleges in Hong Kong and was a Griswold lecturer at Cornell University in 1962.

Bell award

Dr. Jessie Bernard, professor of sociology, was given the Louis H. Bell Memorial Award at Commencement Exercises last Saturday for her book, "Academic Women," a study of the sociology of academic women, published in April.

The Bell Award, consisting of a certificate and a check for \$1,000, made available by the Penn State Alumni Fund, was established to encourage the production of scholarly books by members of the faculty. It was initiated in 1959.

Dr. Bernard's book, published by the University Press, analyzes the motivations, backgrounds, and career patterns of academic women and evaluates their contributions as teachers and professors and as scholars and scientists. She also considers the roles of academic women as faculty colleagues and as spinsters, wives, and mothers, giving some predictions for the future of American women in academic life. The book is the sixth authored by Dr. Bernard.

Emeritus conferred

The Board of Trustees conferred emeritus rank on the following members of the staff and faculty who are retiring:

Agriculture: John O. Pepper, entomology extension; Howard B. Sprague, agronomy; Wallace E. White, wood technology.

Arts and Architecture: George E. Ceiga, music.

Business Administration: Ervin P. Hexner, business administration and economics.

Engineering: Calvin G. Reen, civil engineering; Arthur Rose, chemical engineering; Harold I. Tarpley, electrical engineering.

Health and Physical Education: Charles M. Speidel, health and physical education.

Liberal Arts: Edward J. Nichols, English composition.

Mineral Industries: David R. Mitchell, mining engineering; Frank M. Swartz, paleontology.

Science: George H. Fleming, chemistry; Mary L. Willard, chemistry.

Continuing Education: Amos E. Neyhart, director, Institute of Public Safety.

Retirements are effective July 1.

Business changes

Trustees approved a plan for the reorganization of the College of Business Administration into six departments, in place of the two currently in effect, and named heads of each of the departments.

The new departments and those who will head them are:

Accounting and Business Statistics

Dr. G. Kenneth Nelson

Business Logistics—Dr. Robert D. Pashek.

Finance—David H. McKinley, acting.

Insurance and Real Estate—Ralph H. Wherry.

Management—Dr. Max D. Richards.

Marketing—Dr. Fred W. Kniffin.

The plan was developed, says Dean Ossian MacKenzie, to provide greater flexibility for the expected growth of the College in the next few years in terms of enrollment and in the expansion of continuing education work. It also reflects the growing importance of service industries such as finance, insurance, real estate, and transportation.

By 1970 the enrollment in business administration is expected to increase by 50 per cent among undergraduates at University Park and among graduates by 300 per cent. Enrollment at Commonwealth Campuses is expected to triple.

SENATE MINUTES



Meeting of June 2, 1964

(Continued from last week)

Della Durant, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS presented the report which had been distributed at the meeting. She stated that 630 applications had been received and 198 scholarships had been granted, for a total of \$30,715. Miss Durant moved that the Senate approve the list of recipients of scholarships for 1964-65. The motion was seconded and passed. The recipients are as follows:

Louise Carnegie

Gold, Richard Barry, LA, 3.83; Heller, Virginia Ilene, MCRB, 3.85; Jervis, David Leslie, For, 3.85; Marton, Ronald Timothy, Phys, 3.50; McAnany, Ellen Constance, A & L, 3.84; McCauley, Alan David, Ag SI, 3.84; Pucher, Dimitri Dennis, AerSp, 3.88; Seides, Stuart, PM, 3.96; Senior, Carolyn Elaine, A & L, 3.59; Sterling, Peter Richard, BA, 3.52; Wynn, Susan Etta, Math, 3.82; Yesukaitis, Donald Charles, BA, 3.60.

Class of 1921

Allhouse, Gary W., AgE, 3.77; O'Brien, Thomas Anthony, Chem, 4.00; Piasterer, Doris Elizabeth, HEC, 3.64; Scott, Judith Ann Marie, SecEd, 3.70; Wylonis, Thomas William, Engr, 3.78.

Class of 1920

Adelman, Lois, A&L, 3.61; Estep, Phyllis, Sec Ed, 3.78; Fritzen, Jeffrey, ChE, 3.84; Hendricks, Robert Guy, A&L, 3.50; Joseph, Thomas John, A&L, 3.57; Morris, Marsha, Math, 3.78; Patrick, William Paul, AerSp, 3.64; Seidel, Sally Aane, Coun, 3.72; Smith, Richard Stephen, CE, 3.54; Speers, Thomas, EE, 3.49.

Class of 1922 Memorial

Althouse, Richard Harold, Arts, 3.45; Bixler, Harry Nathaniel, A&L, 3.90; Burock, Russell, Engr, 3.63; Caplan, James Alan, BA, 3.42; Donato, Dennis Nunzio, LA, 3.35; Durkin, Barbara L., EKEd, 3.32; Herbert, Marian G., A&L, 3.97; Hinderliter, Hilton Fay, Phys, 3.53; Irons, James Louis, Phys, 3.37; Kelley, Russell Lynn, A&L, 3.63; Kisinger, Diana Mae, AEd, 3.47; Kuder, Susan Ruth, A&L, 3.52; Mackey, Karen Ethel, Math, 3.40; Moran, Marjorie Jane, A&L, 3.84; Murray, Gladysanne, BA, 3.36.

General

Allhouse, Gary Wayne, AgE, 3.77; Bell, Sharon Lee, HEC, 3.47; Blackman, Arlene Beatrice, Psy, 3.50; Brager, Harvey, Chem, 3.45; Brickman, Peter Robert, LA, 3.70; BURGART, Calvin Edmund, Arch, 3.63; Burock, Russell, Engr, 3.63; Burrisson, John A., Journ, 3.48; Calhoun, Patricia Mary, AAst, 3.57; Cambala, Stephen Joseph, Journ, 3.62; Cooper, Marilyn Marie, A&L, 3.83; Cunningham, Kathleen Anne, Sci, 3.52; Drake, Patricia Lee, A&L, 3.49; Dreisbach, Jane Audrey, AgSI, 3.58; Franz, Stephen, EE, 3.71.

Gane, David Wright, Engr, 3.59; Geishkoff, Diana Joan, Math, 3.81; Giles, Gloria Elaine, Ed, 3.45; Guidrey, JoAnn, LA, 3.75; Hall, Mitchell Melvin 3rd, Arch, 3.64; Hamilton,

Donald Alan, A&L, 3.84; Hapchuck, John, BA, 3.49; Herbert, Marian, A&L, 3.91; Hinderliter, Hilton Fay, Phys, 3.53; Horan, Katharine D., SecEd, 3.70; Jackson, Charles Frederick, A&L, 3.65; Kaich, Andrew Michael, AerSp, 3.85; Kolich, Charles H., Chem, 3.50; Leair, William Eugene, BA, 3.74; Lieberman, Richard Mark, LA, 3.50.

Ludwig, Stephen, LA, 3.61; Lutz, Robert Joseph, Engr, 3.52; Marton, Ronald Timothy, Phys, 3.50; Matulewicz, Theodore Joseph, Sci, 3.66; McCormick, George Milton, PM, 3.83; McIlvried, Kenneth, Zool, 4.00; Meltzer, Ronnie Sue, LA, 3.65; Meneghini, Kathleen Ann, Psy, 3.59; Meyer, Lea Mary, Math, 3.59; Morris, Marsha, Math, 3.78; Moss, Allen M., ESc, 3.58; Orlosky, Francis John, Engr, 3.58; Prunella, Franklin, LA, 3.71; Rebeck, Leoma Mae, HEC, 3.50; Reese, Kathleen Mary, Ed, 3.45.

Revtyak, Dolores Mary, EKEd, 3.76; Rusnak, Robert Joseph, EE, 3.50; Salter, Charles Keltner, ME, 3.56; Schaefer, Audrey May, LA, 3.65; Schein, Lawrence Brian, ESc, 3.58; Shea, Mary Eugenia, A&L, 3.52; Simon, Martin, Journ, 3.68; Slutsky, Judith Sandra, SecEd, 3.78; Smiley, Susan Marian, SPA, 3.79; Smelcha, Rowan Paul, ChE, 3.45; Tarolli, Darragh, HEC, 3.50; Thompson, Lewis Leroy, Journ, 3.59; Thumber, Susan Shirley, HEC, 3.52; Totten, Judith Marie, Math, 3.54; Voegler, Gerald Paul, CE, 3.63; White, Harold Bancroft III, Bioch, 3.60; Willier, Gary Allen, AgSI, 3.48; Zahradnik, Robert Thomas, Chem, 3.52.

Class of 1941

Hackenberger, Joyce Eileen, Sci, 3.65; Slutsky, Judith Sandra, SecEd, 3.78; Strum, Robert Clifton, ESc, 3.78; Zundorfer, Mark David, LA, 3.80.

Lawrence J. Ostermayer

Berkheimer, John Kenneth, Engr, 3.46; Brennan, Patricia Mary, Ed, 3.48; Bruce, Barbara Lynn, Bioch, 3.47; Fritzen, Jeffrey Frederick, ChE, 3.84; Gingrich, Philip Bernard, Engr, 3.77; Golbitz, Linda, Sci, 3.90; Grenoble, Dane Clark, ChE, 3.52; Hapchuk, John Michael, BA, 3.49; Jurewicz, Benjamin Raymond, AerSp, 4.00; Klinghoffer, Randy William, BA, 3.90; Kozar, Emily Joan, LA, 3.90; Lipchak, Andrew John, A&L, 3.58; Manning, Billiella, LA, 3.78; McCulloch, Joseph William, Phys, 3.52; McCullough, Jean Ann, LA, 3.48; McKenzie, Joan Roberta, A&L, 3.66; Olah, Lawrence Emery, ESc, 3.49; Ralston, Terrance Douglas, EMch, 3.61; Ruggiere, Neal Francis, EE, 3.50; Sharpe, Merle James, Ed, 3.47; Speers, Thomas George, EE, 3.49.

Donald MacIntire

Yarnell, Kenneth Ardell, Jr., EE, 3.75.

Garnet Rothbreck

Pennington, John Alan, MuEd, 3.28; Soyster, Allen Lee, IE, 3.36.

School Administrator's

Blackburn, Robert Dale, Metal, 3.44; Boettjer, Sieghried Erich, SecEd, 3.45; Bowman, Gilbert Leroy, Jr., ESc, 3.38; Cook, Dorothy Lucille, SecEd, 3.26; Dressler, Kenneth Doyle, EE, 3.23; Ferree, David Curtis, Hort, 3.40; Hamun, Constance Louise, LA, 3.00; Hite, Mary Kathleen, A&L, 3.54; Long, Sandra Louise, A&L, 3.36; Norris, John Lemoyne, EE, 3.42.

Ethel and Bayard Kunkle

Baginsky, Vincent John, LA, 3.71; Bleacher, Harlan Neal, HEC, 3.56; Brown, Paul Andrew, A&L, 3.87; Catalano, Kathleen Matilda, A&L, 3.53; Cokus, James, EE, 3.56; Golbitz, Linda Rose, Sci, 3.90; Gurski, John Edward, BA, 3.53; Harris, John Henry, A&L, 3.69; Heacox, Thomas Lee, A&L, 3.66; Hegedus, Louis S., Chem, 3.80; Holland, Robert Edward, Chem, 3.53; Klinghoffer, Randy William, BA, 3.90; Kozar, Emily Joan, LA, 3.91; Letsch, Richard Curt, MngE, 3.67; Manning, Billiella, LA, 3.78.

Nevel, Robert Llewelyn, Jr., For, 3.52; Perkowski, Joseph John, EE, 3.63; Prunella, Franklin, LA, 3.71; Ralston, Terrance Douglas, EMch, 3.61; Rarick, Ruth Ann, A&L, 3.60; Seides, Stuart Floyd, PM, 3.96; Smith, Linda Lee, SecEd, 3.67; Swarts, Robert Paul; 2 EET, 4.00; Thompson, John Ross, Journ, 3.70; Womer, William Joseph, A&L, 3.87; (Prior to June 30, 1964) Brown, Paul Andrew, A&L, 3.87; Franz, Stephen Henry, EE, 3.74; Hegedus, Louis S., Chem, 3.80; Leair, William Eugene, BA, 3.74; McIlvried, Kenneth, Zool, 4.00.

Fred Merlin Kecker

Carlitz, Geoffrey Ryn, Psy, 3.68.

McCarty

Maopolski, Bernard John, AerSp, 3.56.

Phi Kappa Phi

Estep, Phyllis Marie, SecEd, 3.78.

Espy

Musselman, Judith Ann, Ed, 2.93.

Vance C. McCormick

Pandoli, John Dennis, EE, 3.55; Ruggieri, Neil Francis, EE, 3.50.

Chimes

Adelman, Lois Simmie, A&L, 3.61; Morris, Marsha, Math, 3.78.

Mary Thompson Dale

Hege, Ann Louise, A&L, 3.75.

Lt. Harry Edward Wagner

Crum, Marlin William, Jr., AerSp, 3.23; Enck, John Isaac, Jr., AgSI, 2.96; Gross, Norman Jordan, BA, 3.00; Hauber, Richard Leon, AgSI, 3.38; Kern, Charles Lowell, BA, 3.05; Sharp, George Jean, Jr., Psy, 2.78; Shiley, Dennis Eugene, 2 DDT, 3.57.

Helen Wood Morris

Spinelli, Robert Bryan, Engr, 3.62; Rosenberg, Rachelle L., EKEd, 3.62.

Jeha W. White

Dildine, James T., BA, 3.84; Mosier, Dale Melvin, Engr, 3.79; Yocum, John Francis, AerSp, 3.87.

Life Assurance Company of America

Brecht, Richard Domenick, A&L, 4.00; Polowchak, Van Michael, Meteo, 3.75.

UNFINISHED BUSINESS

Mr. Shelley presented the report on TERMINOLOGY APPLICABLE TO FORMALIZED PROGRAMS OF STUDY which had been distributed with the agenda as Appendix "D," and which had been presented to the Senate at the May meeting as an informational report. He moved adoption of the following recommendation:

The curriculum in each of the Colleges consists of the sum total of courses and programs of study offered by that College. The majors are programs of study which may include subdivisions called options.

The motion was seconded. B. A. Whisler spoke against the motion. The motion was

passed by a showing of hands. The complete report is on file in the office of the secretary.

J. J. Schanz of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report on AN ANALYSIS OF THE TERM SYSTEM which had been distributed with the agenda Appendix "E." He presented a change in wording of the third recommendation as follows:

That the term remain at 10 weeks and the final examination period be increased from 3 to 6 days. All courses shall hold final examinations during this 6-day period unless approval of the department head and the dean of that College has been obtained for not having an examination. It is recommended strongly that consideration be given to having 2-hour final examinations. The Calendar Committee shall be consulted on the above matters when changes in existing Senate policy are necessary.

Mr. Schanz moved adoption of the recommendations including the suggested change in number three. The motion was seconded. There was general discussion by Messrs. Kozak, Schanz, and Read. D. H. Ford moved to delete recommendation number three. The motion was seconded, and was then discussed by Messrs. Ridge, Lancaster, Goodwin, Sams, Gorlow, Broderick, Saylor, President Walker, Beittel, Palladino, and Freund. The question was called for on the deletion of recommendation number three. The motion was passed by a showing of hands. The motion to pass the recommendations with number three deleted was passed. The recommendations, as passed, are as follows:

1. *That the faculty continue its efforts to adjust its teaching methods to the Term System. Full use of class periods and adequate testing are essential for the proper functioning of the Term System.*
2. *That experiments in teaching methods be increased. Faculty members are urged to utilize various University services, such as the University Division of Instructional Services, that are available for assistance or advice when needed. University policy both approves and encourages such experimentation. Variations from standard patterns of lectures, recitations, and laboratories can be approved for regular use after experimentation has shown their usefulness.*
3. *That the University undertake a study to determine what is the optimum length of class period for effective teaching and learning.*
4. *That the number of usable day-time classes be increased to 6 from the present 5. This could be accomplished by bringing the single lunch period back into the daily schedule, utilizing the time gained by reducing the class break from 20 to 15 minutes.*
5. *That every possible effort be made to reduce faculty time expended on the mechanics of scheduling and registration and that faculty time available for student advising be increased.*

A. R. Gray, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved that the Senate adopt the recom-

mended changes in the By-Laws and Rules as presented in the report which had been distributed with the agenda as Appendix "E." Article II, Section 1 (o), 3-A and 3-B and Article II, Section 2 (o) of the By-Laws and Rules A-9, Q-1, and W-16 of the Senate Rules for Undergraduate Students, 1963-1964. The motion was seconded. Monroe Newman moved to delete the words "the Dean of Men or the Dean of Women, or both depending upon the sex of the student or students whose case is under consideration;" from Article II, Section 1 (o) 3-A. The motion was seconded and discussion by Messrs. Simes, Ridge, Nesbitt, Broderick, and Brewster followed. A motion was made by Leon Gorlow to recommit the report to the Senate Committee on Student Affairs. The motion was seconded. R. G. Benreuter discussed the matter. The motion on commitment was lost. The motion on the amendment to delete the words as stated above was lost. The motion to adopt the recommendations as presented was passed by more than a two-thirds vote by a showing of hands. The changes in the By-Laws and Rules, as adopted, are as follows:

Change Article II, Section 1 (o), 3-A to read:

A. Voting members, the Dean of Men or the Dean of Women, or both depending upon the sex of the student or students whose case is under consideration; an elected member of the Senate who is a member of the Committee on Student Affairs; a representative of the College Deans to serve as a permanent member for a year; and the President of USG or AWS, or both, depending upon the sex of the student or students whose case is under consideration. The chairman is to be either the elected member of the Senate or the representative of the College Deans.

Delete Article II, Section 1 (o), 3-B.

Change Article II, Section 2 (o) by adding the following at the end of paragraph two;

It shall be the duty of the Subcommittee on Discipline to act as an appeal body for cases which are appealed by a student or his Academic Dean from a decision of the Office of the Dean of Men or Dean of Women.

Change the following Rules, of the Senate Policies and Rules for Undergraduate Students, 1963-1964 to read:

A-9. *A student who has been suspended from the University for disciplinary reasons shall be reinstated in the University and in his curriculum by the Dean of Men or the Dean of Women when the period of his suspension is completed. A student under suspension is not immune from drop action under the P-rules, however.*

Q-1. *Disciplinary probation may be imposed in accordance with rules established by the University Senate. (See W-rules.) Notice of disciplinary probation which is imposed shall be given by the Dean of Men or Women, or the Dean of Student Affairs at the Commonwealth Campus, who shall also furnish the student with a copy of Rule Q-1.*

W-16.

a. The Office of the Dean of Men and Dean of Women shall have the authority to adjudicate cases of student misconduct. They may refer cases to a Student Court for preliminary adjudication.

b. Any student summoned before a Student Court, before the Office of the Dean of Men or the Dean of Women or before the Senate Subcommittee on Discipline shall have the following rights:

The charges preferred shall be sufficiently specific to reasonably inform the student of their nature and to enable him or her to understand and to prepare and to present his or her defense to those charges. The charges shall be furnished in writing to the student sufficiently in advance of the hearing upon them to afford a reasonable opportunity to prepare for the presentation of his or her defense at the hearing. He or she shall have the right to call a reasonable number of witnesses in his or her own behalf.

The testimony of unknown or unidentified accusers or witnesses shall not be admissible. The accused shall have the right to cross-examine any or all of his or her accusers who can reasonably be expected to attend the hearing.

c. Any student shall have the right of appeal from the action of a Student Court to the Office of the Dean of Men or the Dean of Women. The Student Court must inform the student of his right of appeal.

d. Any student or his Academic Dean shall have the right of appeal to the Subcommittee on Discipline from the Office of the Dean of Men or the Dean of Women. The Office of the Dean of Men or the Dean of Women must inform the student of his right of appeal.

e. Student Courts may impose any disciplinary action subject to review by the Office of the Dean of Men or the Dean of Women.

The complete report is on file in the office of the secretary.

H. K. Schilling, Dean of the Graduate School, presented the report on RECOMMENDATION OF THE GRADUATE SCHOOL CONCERNING THE CHANGE IN THE PRESENT GRADING SYSTEM which had been distributed with the agenda as Appendix "G." He moved that the Senate ratify the action taken by the Graduate Faculty. The motion was seconded. It was pointed out that the grading system would be effective for the Spring Term. The motion was passed. The recommendations are as follows:

In view of the practices of an overwhelming majority of other Graduate Schools, the reply received from Dr. Lapp of the National Research Council, and an apparent preference of graduate faculty members consulted at this Univer-

(Continued on page four)

SENATE —

(Continued from page three)

sity IT IS RECOMMENDED to change the present grading system to one having grades carrying graduate: A (4), B (3), C (2) (grade points given in parentheses) and two grades with no graduate credit: D (1), and F (0), of which D is the normal failing grade, and F implies an adverse judgment relative to the student's potential for further graduate study. These grades apply to 400, 500, and 600-level courses.

A grade average of 3.0 earned at this University shall be the minimum required for admission to the comprehensive doctoral examination and/or for receiving any graduate degree.

The complete report is on file in the office of the secretary.

The next regular meeting of the Senate will be on July 7, 1964; the agenda will be distributed on June 23, 1964. The meeting adjourned at 5:32 p.m.

Robert G. Bernreuter
Secretary

Germany study

President Walker will join 11 other presidents of leading American universities to confer June 23-July 2 with rectors of German universities on common problems of rapid growth and change. The delegation represents the Association of American Universities and will travel under a grant from the Carnegie Foundation.

Other members of the group are: George W. Beadle, Chicago; Lee A. Dubridge, California Tech; Clifford M. Hardin, Nebraska; Harlin Hatchler, Michigan; David D. Henry, Illinois; Grayson Kirk, Columbia; Charles E. Odegaard, University of Washington; James A. Perkins, Cornell; Nathan M. Pusey, Harvard; Edgar F. Shannon, Jr., Virginia; and J. E. Wallace Sterling, Stanford.

Open Stacks at Library

On a trial basis, undergraduate students as well as graduate students and faculty will be permitted access to the stacks in the Pattee Library this summer, June 19 to September 3, 1964.

The purpose of this modification of the present practice is to increase the general availability of books to readers. After looking up call numbers in the Card Catalog, readers will be encouraged to go directly to the stacks and get their own books. As they leave the stacks, they will have the books charged out to them.

A few areas will not be open for browsing. The area where unbound periodicals or uncatalogued materials are housed, or where library operations are in progress, will continue to be closed.

Faculty members and graduate students have always had the priv-

ilege of going directly to the stacks and may even have had individual study carrels reserved for their use. Undergraduates have been permitted to enter the stacks only with special permission. That permission has been granted more and more freely in recent years.

Now undergraduates should go directly to the stacks but they may still request books at the Circulation Desk as they have always done.

Books from the stacks are to be charged out at the Stack Exit on Level 5 or at the Circulation Desk. Reading Room books will be charged out at desks in the rooms.

The chief innovation, aside from the open stacks, will be the establishment of a check-out point at a single exit from the library, where all books, briefcases and parcels will be checked to see that books have been properly charged.

Euwema dinner

The testimonial banquet to honor Dr. Ben Euwema, retiring as dean of the College of the Liberal Arts this month, will be held Tuesday, June 23 at the Nittany Lion Inn at 6:30 p.m. and tickets are available through the offices of the several deans and at the HUB desk.

Dean Euwema will return to teaching English after 17 years as dean.

The committee planning the banquet consists of Helmut J. Golatz and Dr. R. Wallace Brewster, co-chairmen; Dr. Lois B. Hyslop, Dr. Deborah S. Austin, Lynn Christy, Dr. Grant N. Farr, and John D. Vairo.

Dean approved

The Board of Trustees approved the appointment of Dr. Kenneth D. Roose as dean of the College of the Liberal Arts, to become effective July 1.

He will succeed Dr. Ben Euwema, dean for the past 17 years, who will return to teaching duties as professor of English.

Dr. Roose, 44-year-old economist with a background in teaching, research, and government service, has been associate dean for social sciences at Oakland University, Oakland, Mich., which is affiliated with Michigan State University.

faculty BULLETIN

Vol. 51, No. 48 June 19, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

**Weekly Publication
of the Pennsylvania
State University**

Television station

WPSX, Channel 3, the University's television station, will operate as a part of the program in Continuing Education when it becomes activated.

The closed circuit television system will continue to operate as a part of the Division of Instructional Services, serving classes on the University Park and Altoona Campuses.

The activities of WPSX will closely parallel many of the Continuing Education programs, President Walker explains. The station is expected to participate actively in public school instruction through the Allegheny Educational Broadcast Council.

Zoologist speaks

Norwegian zoologist, Arne Semb Johansson, professor at the Zoological Laboratory, University of Oslo, will speak at the Institute for Science Teachers on campus July 15-16. The Institute is sponsored by the National Science Foundation.

Johansson is one of 13 foreign scientists visiting summer institutes in this country in a program administered by the American Association for the Advancement of Science.

Titles changed

The Board of Trustees, on the recommendation of the College of Agriculture, has designated the department of agricultural plant pathology as the department of plant pathology and in like manner has dropped the "agricultural" designation from the title of the department of agricultural entomology.

Theatre Arts

The degree of Master of Fine Arts with a major in theatre arts has been approved by the Board of Trustees, on the recommendation of the Graduate School.

To obtain the degree, a student will be required to take 48 credits, whereas the master of arts degree requires 30. Theatre arts majors, or majors in related areas, would qualify for admission to the new program, which Dr. Walter H. Walters, head of the department of theatre arts, says will be considered by many to be of sufficient stature to constitute a terminal degree.

Applicants for the program, who will be carefully screened, will be required to audition or submit portfolios of their work, in addition to taking 24 credits in the theatre arts. All majors will be required to participate in University theatre productions in positions of responsibility.

French films

The NDEA French Institute will provide a program of French films and lectures during the Summer Term. Admission to all events is free to the faculty and will be given in Room 214 Boucke each Thursday, at 7:30 p.m.

The first film, on July 2, will be "Inspector Maigret."

MECHANICS

Seven short courses in new areas of applied mechanics and materials science will be given this summer by the department of engineering mechanics in cooperation with the Conference Center. They are planned for engineers and scientists engaged in research, development, or design.

ALUMNI FUND

Contributions to the 1964 Alumni Fund, which closes June 30, now total \$340,131.48, from 13,412 contributors. A check for the amount was presented Saturday at Alumni Reunion activities to the President by J. E. Holtzinger, class of 1925.

PRESS INSTITUTE

Approximately 100 high school students from throughout the State are attending this week the 8th Annual High School Press Institute, for concentrated, comprehensive studies in all major phases of newspaper work.

SUMMER INSTITUTE

John L. George, associate professor of wildlife management in the School of Forestry, will be one of 11 scientists serving as visiting lecturers in a summer institute series sponsored by the NSF at the Mississippi State University June 29 and 30. He will teach classes in wildlife ecology and lecture on ecological implications of the use of chemicals to vertebrate wildlife.

Alumni gift

Members of the Class of 1911, here for their 50th Reunion last weekend, presented the University with a concert harp. James W. Carpenter, retired president of the Long Island Lighting Co., valedictorian of his class, made the presentation.

The class continued a tradition of contributing to the music culture of the University in presenting the harp, since the same class gave the Schwab Auditorium organ 50 years ago.

President Walker accepted the gift and Nan Gullo Mamm, of State College, played a selection at the ceremonies.

Weston chosen

Bruce L. Weston, instructor of Russian in the department of Slavic languages, is currently at Moscow University as one of 25 teachers of Russian chosen in a national competition for participation in a ten-week program of special study.

It is the second teacher's exchange program being conducted by the United States and the U.S.S.R. Last year Dr. Thomas F. Magner and Joseph Paternost, head of the department and assistant professor respectively, took part in the same program.

Weston is a graduate of Northwestern University and received his master's degree in Slavic languages and literature from the University of Michigan in 1961.

Hydrology

The University has become a member of the Universities Council on Hydrology, national organization of universities with research and teaching programs on various aspects of water conservation.

Dr. William E. Sopper, assistant professor of forestry, is the University's delegate to the Council and Dr. Richard R. Parizek, assistant professor of geology and geophysics, is alternate delegate.

Penn State offers courses or does research on some phase of hydrology in nine different areas.

Studio art

The Board of Trustees has approved a change in the designation of the department of studio art to the department of art.

Bruce R. Shobaken, assistant professor of art, is serving as acting head of the department during the Summer Term. Edward A. Adams, associate professor of art, was acting head during the Spring Term.

PERSONNEL MATTERS



Dr. E. Willard Miller, professor of geography, has been appointed assistant dean for resident education and Dr. John J. Schanz, Jr., professor of mineral economics, assistant dean for continuing education, both for the College of Mineral Industries and effective July 1.

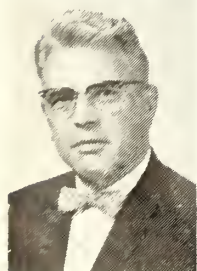
Dr. Miller succeeds Dr. John D. Ridge, who has completed eleven years in the post and will return full time to duties as professor and head of the department of mineral economics. Dr. Schanz takes over a new position, although much of the work was formerly operated under the direction of Donald C. Jones, who retired March 31 after 31 years of service.

A member of the faculty since 1945, Dr. Miller served as head of the department of geography from then until last year. He is a Clarion State College graduate, received his master of arts degree from the University of Nebraska and was conferred the doctor of philosophy degree in 1942 by Ohio State University. Before coming here he was a geographer with the Office of Strategic Services in 1944 and 1945 and had taught at Western Reserve University and at Ohio State.

Dr. Schanz received all three degrees from Penn State. Following a short period of service as a research chemist with The Beryllium Corp., he was appointed instructor in mineral economics here. He was named professor of mineral economics, a position he will continue to hold, in 1962.

* * *

Dr. Alvin R. Grove, professor and acting head of the department of botany, has been named assistant dean for Commonwealth Campuses and Continuing Education of the College of Science, effective July 1. He will continue as professor of botany, as well. A



Grove

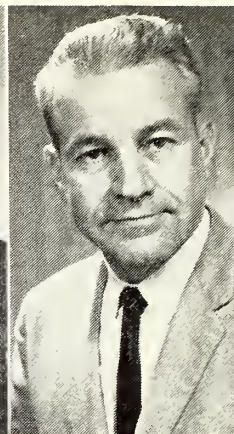
graduate of Lebanon Valley College, with master of science from the University of New Mexico and doctor of philosophy degree from the University of Chicago, Dr. Grove served on



Schanz



Miller



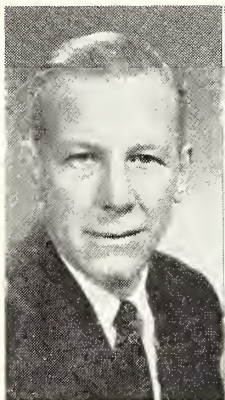
Thomas



Golatz

the faculty of New Mexico for three years before coming here in 1941. He was on leave for World War II service. His research has been concerned primarily with morphology and anatomy.

* * *



Bortree



Walker

Dr. Alfred L. Bortree and Dr. Darrell E. Walker have been named to head two divisions in the College of Agriculture.

Dr. Bortree, head of the veterinary science department, succeeds Dr. Russell C. Miller as chairman of the Division of Animal Science and Industry. Dr. Miller completed his three-year term as chairman.

Dr. Walker succeeds Dr. Howard B. Sprague who will retire July 1.

A member of the faculty since 1948, Dr. Bortree has been head of the department of veterinary science since 1953. Dr. Walker came to Penn State in 1951 and was appointed head of the department of horticulture in 1962. He is professor of plant breeding.

* * *

Dr. Richard D. Schein, associate professor of botany who has been serving as assistant to the dean of the Col-

lege of Science, has been named assistant dean of the College, effective July 1. He will continue part time with teaching and research activities, which includes epidemiological studies of the effect of light, temperature, and humidity in the development of diseases in plants.

* * *

Dr. Walter I. Thomas, professor of agronomy, has been named to head the department of agronomy. Dr. Paul T. Baker, associate professor of anthropology, has been named acting head of the department of sociology and anthropology, and Helmut J. Golatz will head the department of labor education.

Dr. Thomas, whose appointment is effective July 1, succeeds Dr. Howard B. Sprague, who retired June 30. Dr. Thomas has been a member of the faculty since 1959 and had been on the Iowa State University staff before coming here. His research, related largely to corn, has been concerned with breeding, the absorption of strontium and calcium and other chemical elements, and inheritance of disease resistance in plants.

Helmut J. Golatz, associate professor of industrial relations, has been appointed head of the department of industrial education, effective Sept. 1, succeeding Dr. Joseph G. Rayback, who has accepted a position as senior professor of history at the University of Alberta. A member of the faculty since 1952, Golatz has been intimately concerned with the labor institutes conducted by the University. He is a Temple University graduate and received the master of arts degree there in history. He taught in Allentown, Pa., high school and Muhlenberg College before joining the Penn State faculty.

Dr. Baker will become acting head of the sociology and anthropology department Sept. 1, succeeding Dr.

Macklin E. John who during the past two years has held this post as well as that of head of the agricultural economics and rural sociology department, to which he will return full time Sept. 1. Dr. Baker joined the faculty in 1958 after a total of six years as a physical anthropologist first with the Climatic Research Laboratory in Lawrence, Mass., and later with the Quartermaster Research and Development Center at Natick, Mass. He is a University of New Mexico graduate and received his doctor of philosophy degree from Harvard University.

Retirements

Dr. Edward J. Nichols will retire July 1 as professor emeritus of English composition after nearly 36 years as a member of the faculty. Capping his career was receipt of the Christian H. and Mary F. Lindback Award for Distinguished Teaching at Commencement Exercises two weeks ago. Author of the first book published by the University Press, in 1958, "Toward Gettysburg: A Biography of Gen. George F. Reynolds," Dr. Nichols also wrote two early novels and the recent book, "Zach Taylor's Little Army." He has been highly popular with students in his fiction-writing classes.

Dr. Mary L. Willard retires July 1 as professor emerita of chemistry and expects to continue her work in "criminalistics," in which she has aided law enforcement agencies and attorneys with expert testimony related to chemistry and microscopy. A Penn State graduate, she has been a member of the faculty since 1921 and in her teaching career has taught more than 4,000 students in classes in chemical microscopy. She has received many honors in her career, including the 1959 Citation for Excellence in Teaching from Penn State.

Dr. Arthur Rose, a member of the faculty for 34 years, will retire July 1 as professor emeritus of chemical engineering. Noted for his research in gas chromatography analysis of complex mixtures containing fats, cholesterol and similar substances, he is also well known for work in distillation theory. He is president of Applied Science Laboratories, Inc., and will continue his activities in the company after retirement and will travel in Alaska and Europe within the next year. He will also again edit the book, "Condensed Chemistry Dictionary," for Reinhold Publishing Co., which he and his wife have helped revise three times since 1947.

Calvin G. Reen will retire as professor emeritus of civil engineering July 1 after nearly 22 years on the faculty. During World War II he was named supervisor of civil engineering extension courses for the war training program here and in 1945 was appointed professor of engineering extension. He became a member of the civil engineering faculty in 1949. A specialist in transportation, he served as transportation consultant for the Joint State Government Commission of Pennsylvania. He will become a traffic engineer for the consulting firm of Gannett, Fleming, Corddry and Carpenter, Inc., in Harrisburg.

Mrs. Ellen C. Masters will retire July 1 and will spend a year in Europe, teaching in Mediterranean countries before returning to the campus to become a student in art and philosophy classes. A member of the faculty at Ogontz for 12 years, heading the English program, she came to the University Park campus two years ago. She had previously taught English at private schools and has also engaged in theatrical work and managed bookstores in New York. Her husband was the poet, Edgar Lee Masters.

Dr. Ervin P. Hexner, professor of business administration, will retire July 1 with emeritus rank. He has also served as assistant dean for research in the College of Business Administration and director of the Bureau of Business Research. He came to the campus first as visiting professor of political science in 1958, then followed as visiting professor of economics and as distinguished visiting professor of business administration. He was appointed to the permanent faculty in 1961. He came to the U.S. in 1939 from Czechoslovakia and joined the University of North Carolina faculty. After participating in the Bretton Woods agreements on international monetary funds, he served on the Fund staff until he came here.

Dr. Frank M. Swartz will retire July 1 as professor emeritus of paleontology, after 39 years as a member of the faculty. He was head of the department of geology from 1945 to 1961, when he was named research professor of paleontology. He received the bachelor of arts degree in chemistry and the doctor of philosophy degree in geology from The Johns Hopkins University and served on the faculty of the University of North Carolina for a year before coming here in 1925. He expects to devote his time to writing in the fields

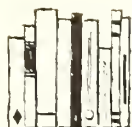
of paleontology and stratigraphy and will take up residence in Tucson.

Dr. Mary L. Dodds, professor of foods and nutrition, will retire July 1 with emerita rank after serving on the faculty for 17 years. At a dinner recently attended by faculty and former graduate students, the Mary L. Dodds Loan Fund for graduate students was announced. Dr. Dodds came to Penn State from the University of Tennessee, where she had been research nutritionist for six years and previously was a Senior Buhl Fellow at the University of Pittsburgh for two years and Industrial Fellow at Mellon Institute for 12 years. She initiated and developed the research program here in foods and nutrition and did much of her teaching on the graduate level. She received the 1957 Borden Award for research contributions in the field of nutrition and experimental foods, and has gained national recognition as a nutritionist.

Amos E. Neyhart will retire July 1 as director emeritus of the Institute of Public Safety, which he headed for many years. He joined the staff in 1920 as assistant professor of industrial engineering and helped organize the Institute in 1938 after initiating the driver-training program for which he became nationally and internationally recognized. Known as the father of driver education, he started the first course in the country in 1933-34 at State College High School and in the intervening years he has lectured on and promoted in many ways safety education in every state in the country. Three years ago he helped the Yugoslav government set up training centers for traffic education. He has received many honors and awards for his work. He will continue as consultant for the AAA and continue to conduct motor fleet supervisor training courses for the National Committee for Motor Fleet Supervisor Training.

Dr. Howard B. Sprague, head of the department of agronomy since 1953, will retire July 1 as professor emeritus of agronomy. He came here after serving two years as an officer in the U. S. Air Force, during which he supervised construction of airbase facilities in southwestern states. He was head of the department at Rutgers University from 1927 to 1942 where he did pioneer work in plant breeding. He served during World War II with the Air Force, supervising construction and maintenance of airfields, following which he became head of the Agriculture Division for Texas Research Foundation.

BOOKS



Edwin W. Gamble, Jr., assistant professor of music, is editor of the latest publication in the University Press Music Series, of which Denis Stevens is general editor. Three songs of the Renaissance period are contained in the edition, which is No. 4 in the Music Series. The songs are by Thomas Stölzer ("Heimlich bin ich in Treuen dein"), Erasmus Lapidus ("Nie grosser Lieb"), and Heinrich Finck ("Ich stand in einem Morgen"). All three composers were of the late 15th century.

* * *

Robert Enggass, associate professor of art and architectural history, currently Fulbright research scholar at the University of Rome, is author of the newest University Press publication, "The Painting of Baciccio, Giovanni Battista Gaulli."

The profusely illustrated book of the Italian Baroque painter, Baciccio, contains a complete photographic record of all of his known paintings, including many never before reproduced. It includes also a detailed analysis of the artist's development. The art historian, Richard Krautheimer, says the book is a "first-rate picture of one of the great artists of the late Roman Baroque."

Enggass, who undertook the work because no complete monograph on Baciccio has been done, began his studies in Italy in 1952 with a fellowship from the University of Michigan, and results of his earliest research were used in his doctoral thesis. He

returned often to Italy and his post-doctoral studies have been supported by funds from the American Council of Learned Societies (in 1958) and from the Penn State Central Council for Research in 1959 through 1962.

* * *

Dr. Charles N. Cofer, professor of psychology, is co-author with Dr. H. H. Appley, York University, Toronto, Canada, of "Motivation: Theory and Research," published April 15 by John Wiley and Sons, Inc.

The book is a detailed examination of important theories and aspects of motivation, including an historical context of the field and a review and evaluation of the major theoretical positions regarding motivation. An extensive bibliography gives students access to the highly specialized literature in the several areas of investigation of motivation.

* * *

Dr. Donald W. Prakken, professor of classical languages, is editor of the recently published book, "A Critical Concordance of the Tibullan Corpus," which was compiled by Edward N. O'Neil, of the University of Southern California and published by the American Philological Association in its monograph series.

The volume, which is of primary interest to those concerned with Latin literary studies, is the first modern concordance of the works of the Roman poet, Tibullus, known for his love verses.

Dr. Prakken spent two years in the editing of the book, which is distinctive as a concordance in its clarity and ease of finding words and references.

CALENDAR



Friday, June 26

Faculty meeting on subject of testing, 2:45 p.m., HUB Auditorium. William E. Coffman, Educational Testing Service, speaker.

Saturday, June 27

Pavilion Theatre production of "The Typists" and "The Tiger," 8:30 p.m.

Sunday, June 28

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. Roy C. Buck, associate director, Center for Continuing Liberal Education.

Pavilion theatre

"The Typists" and "The Tiger," two one-act plays by Murray Schisgal and directed by Mesrop Kesdekian, will continue at Pavilion Theatre next week, concluding its two-week run Saturday, July 4. Tickets are on sale at the Pavilion Theatre Box office, and reservations may be made by calling 865-6309.

The play to follow will be Shaw's "Man and Superman."

Art exhibit

The art gallery of Chambers Building currently has on display 24 paintings and drawings by Dr. Paul Edmonston, associate professor of art education. The exhibition will continue until July 25.

Also on display are several small paintings by Dr. George Pappas, some bronze sculptures by Dr. John W. Cataldo, and ceramic works by Dr. Kenneth R. Beittel and Dr. Leon Frankston.

All are members of the faculty of art education.

faculty BULLETIN

Vol. 51, No. 49 June 26, 1964

Published weekly to make official announcements and present items of interest to the faculty and staff of The Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 312 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 312 Old Main. 865-7517

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

PENN STATE COLLECTION

PENN STATE UNIVERSITY LIBRARIES



A000073314592